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ABSTRACT

Developed as an easy to use reference on test data for Montgomery County Public Schools (MCPS), this report is divided into two sections: analysis of county data and analysis of school data. Features of the report are as follows: (1) a longitudinal analysis of performance of students tested in MCPS in 1976, 1978 and 1980; (2) school results broken out for students tested in a school more than once and for those transferring into and out of the school; (3) breakdowns of county test results by racial/ethnic and sex groups; (4) College Board results by school; and (5) a graphic presentation of the range of test performance in each school. Appendices include the raw data used for the countywide analysis, and a glossary of the statistical and testing terms used throughout the report. (Author/GK)

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**MONTGOMERY COUNTY
PUBLIC SCHOOLS**

**Annual
Test
Report
1979-80**

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EDWARD ANDREWS
Superintendent of Schools

Prepared by the Department of Educational Accountability

EXECUTIVE SUMMARY

The Annual Test Report, 1979-80 has been developed to be an easy to use reference on test data for the Montgomery County Public Schools. The report is divided into two chapters:

Analysis of County Data
Analysis of School Data

Some of the features of the report are:

- o A longitudinal analysis of performance of students tested in MCPS in 1976, 1978, and 1980.
- o School results broken out for students tested in a school more than once and for students transferring into and out of the school.
- o Breakdowns of county test results by racial/ethnic and sex groups.
- o College Board results by school.
- o A graphic presentation of the range of test performance in each school.

County Results

Systemwide Trends

Results for the tests administered systemwide in the 1979-1980 school year can generally be characterized as being stable at a high level of performance. This was true for scores on the Iowa Tests of Basic Skills (ITBS), Cognitive Abilities Test (CAT) and the Maryland Functional Reading Test (MFRT).

Grade 7 results on the ITBS and CAT were the most impressive. The majority of ITBS and CAT subtest median scores for that grade increased from 1979. In Grade 5 this was true for the ITBS, while the CAT scores were unchanged. In Grades 3 and 9 the majority of ITBS subtests remained the same as in 1979. The percentage of students demonstrating competency on the MFRT in Grade 7 was the same as the previous year. None of the increases were significant.

In Grades 3, 5, 7, and 9, the majority of subtests were at all-time high points for MCPS. Only in Grade 9 were any subtests (four) at all-time lows. The percentage of students demonstrating competency on the MFRT was also at an all-time high.

The results from the Grade 11 administration of the Tests of Academic Progress (TAP) were also stable with medians on all six subtests being the same as in 1978. However, only two of the subtest medians were at an all-time high; three were at an all-time low.

Across all five grades, 69 percent of the students tested scored at or above the national norm median for the Composite. The percentage scoring this high ranged from 80 in Grade 3 to 58 in Grade 9. All countywide medians on the CAT, ITBS, and TAP were above the national norm medians.

College Board Results

Scholastic Aptitude Test (SAT) average scores for the MCPS class of 1980 were 456 on the Verbal test and 503 on the Math test. The Verbal average was the same as the previous year, the Math average was up by three points. These scores contrast with the national trend which was down three points on the Verbal to 424 and down one point on the Math to 466. Thus, not only are the MCPS scores substantially above the national averages, but they are also counter to the continuing downward trend nationally.

Males outscored females on both SAT tests: 531 to 478 on the Math and 460 to 452 on the Verbal. These differences were similar to those on the national level.

MCPS mean scores increased on 8 of the 12 College Board achievement tests from 1979 to 1980. On 10 of these 12 tests, the MCPS mean was higher than the national mean. Only in Spanish and German was the mean score below the national score. It should be noted that the number of students taking these tests was small, usually less than ten percent of the graduating class. Thus, these scores probably cannot be considered representative of the performance of the entire class.

Scores on the Advanced Placement Examinations declined slightly from 1979 to 1980. In the latter year, 45 percent of the students tested received a score of at least four on this five-point scale. This is compared to 49 percent in 1979. This change might have been related to the fact that 22 percent more students took these tests in 1980. As with the achievement tests, these examinations are taken by a small portion of the graduating class.

Racial/Ethnic Score Differences

From 1977 to 1980 ITBS, TAP, and CAT mean scores for white and black students have generally increased by small amounts across all grades tested. The results for Asians and Hispanics were mixed with increases in some grades and decreases in others. Scores for Asians tended to increase at the elementary level, with Grade 3 females showing the largest increase. A score decrease for Grade 9 Asian students was mostly the result of male scores declining. A decline for third grade Hispanics was caused by lower scores for females in 1980 than in 1979.

Average score differences between black and white students have decreased at a slow but steady rate between 1977 and 1980, but white students still scored significantly higher.

Hispanic/white score differences increased in Grades 3, 5, and 7, decreased in Grade 9, and remained the same in Grade 11. The increasing differences in Grades 3 and 5 are the reverse of the patterns from 1977 to 1979. This indicates that these increases are attributable to increases between 1979 and 1980, not to constant change in one direction over several years. White students scored significantly higher than Hispanic students in both 1977 and 1980.

Asian students generally scored higher than white students. The exceptions to this were in language-related subtests, in elementary grades.

On the MFRT, performance improved for all three minority groups and remained constant for white students in Grade 7. Hispanic students had the largest increase as 87 percent passed the test. This was a six percent increase from 1978. Asian and black students each had a three percent increase to 94 and 74 percent, respectively. Ninety-two percent of the white students passed.

Score Differences by Sex

Test scores for both males and females generally improved from 1978 to 1980 on the ITBS, CAT, and TAP. Females scored higher in 1980 on the Composite in Grades 3, 5, 7, and 9; males scored higher in Grade 11. The largest difference between those groups on the Composite was two NCE points in Grade 3.

Across all five grade levels, females scored higher on language-related subtests. The one exception to this was Reading in Grade 11. On math subtests, males scored higher in the secondary grades; results were mixed in the elementary schools.

Among racial/ethnic groups, the major exception to the overall county trends of score differences by sex was found in Grade 3 where Hispanic males scored higher than Hispanic females.

Results from the MFRT were consistent with those discussed above for language-related subtests. Females had a higher percentage passing the total test and all objective categories.

Longitudinal Results

For several years the average test scores in Grade 7 have been lower than those in Grade 5 and those in Grade 5 have been lower than in Grade 3. This score decline across grades could have many causes that have little or no relationship to the quality of school programs. The possible cause that has been investigated here relates to the influence of possible population changes on the scores at each grade.

The longitudinal analysis showed that students remaining in MCPS scored higher on the ITBS than did those who transferred into or out of the county schools. Specifically, students who took the ITBS three times in MCPS (i.e., Grades 3, 5, and 7 or 5, 7, and 9) had higher mean scores than those tested twice. Additionally, those tested twice generally had higher mean scores than those tested only once.

Similar results for the stable vs. transferring population were found within longitudinal groups when the results for students who transfer between MCPS schools were studied separately. The transfers within MCPS scored lower than those who were tested in the same school twice. Only in the elementary schools was the difference significant.

Countywide score declines from Grade 3 to 5 and from Grade 5 to 7 from 1976 to 1978 were reflected in the score trends of students tested in MCPS more than once (longitudinal groups) as well as in the score trends between the groups of different students tested only once in these years (nonlongitudinal groups).

However, from 1978 to 1980 the countywide decline was seen with the longitudinal groups only. Thus, neither countywide decline (i.e., for 1976 to 1978 or 1978 to 1980) can be attributed to student migration or population changes. In fact, from 1978 to 1980 the entering students reduced the countywide decline slightly (no more than one NCE point).

MONTGOMERY COUNTY PUBLIC SCHOOLS
Rockville, Maryland

ANNUAL TEST REPORT

1979-80

November, 1980

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INTRODUCTION TO ANNUAL TEST REPORT

The Annual Test Report, 1979-80 has been developed to be an easy to use reference on test data in the Montgomery County Public Schools (MCPS). The report is divided into two chapters:

Chapter 1: Analysis of County Data

Chapter 2: Analysis of School Data

There also are two appendices, one containing tables of raw data from which the various analyses of county data were performed and one containing a glossary of technical testing terms.

Chapter 1 contains six different analyses of test data. Historical trends on the Iowa Tests of Basic Skills (ITBS), Tests of Academic Progress (TAP), and Cognitive Abilities Test (CAT) are presented for the last seven to nine years. The results for these tests have been broken down and analyzed by racial/ethnic and sex classifications. Additionally, data from these tests have been analyzed longitudinally. That is, the performance of students tested more than once in MCPS has been analyzed. This chapter also includes analyses of MCPS student performance on the Maryland Functional Reading Test and on examinations administered by the College Entrance Examination Board.

Chapter 2 presents test data for each school. This chapter is mostly descriptive. School mean scores are provided for the ITBS, TAP, and CAT. The range of scores between the first and third quartile for each school on the ITBS or TAP is presented in graphic form. This indicates the degree of diversity in achievement in each school. Longitudinal data are presented for each school. These results indicate the trend of achievement test performance of those students tested in the same school in both 1978 and 1980. Also included are the results for students who were in each school for only one of those two test administrations. School population shifts can be indicated by these nonlongitudinal data. College Board results are presented by school in the form of mean scores on the Scholastic Aptitude Tests (SAT) and several of the achievement tests. Finally, the percentage of students passing the Maryland Functional Reading Test is presented for each school.

Appendix A contains the raw data that has been used for the countywide analyses. This is provided for anyone who wishes to do additional analysis.

Appendix B is a glossary of statistical and testing terms which are used throughout the report. Each term is defined, and there is a discussion of how the term can be used appropriately. There also is a discussion of common misuses or misinterpretations of the term.

A review of the major tests used in MCPS was presented in the 1977-78 Annual Test Report. This material is available from the Department of Educational Accountability, Room 110, Educational Services Center.

CHAPTER 1

ANALYSIS OF COUNTY DATA.

INTRODUCTION TO COUNTY DATA ANALYSIS

Overview.

This chapter contains analyses from systemwide standardized testing in MCPS. Data from the administration of the following tests are presented and analyzed:

Iowa Tests of Basic Skills (ITBS): Grades 3, 5, 7, 9
Tests of Academic Progress (TAP): Grade 11
Cognitive Abilities Test (CAT): Grades 3, 5, 7, 9
Maryland Functional Reading Tests (MFRT): Grade 7
College Board Scholastic Aptitude Tests (SAT)
College Board Achievement Tests
College Board Advanced Placement Examinations (AP)

The tests were administered at the following times during the 1979-1980 school year:

| <u>Test</u> | <u>Grade(s)</u> | <u>Administration Dates</u> |
|----------------|-----------------|--------------------------------------|
| ITBS & CAT | 3, 5 | April 15 - May 15 |
| ITBS & CAT | 7, 9 | March 3 - March 28 |
| TAP | 11 | December 3 - January 11 |
| MFRT | 7 | October 15 - October 31 |
| College Boards | 9-12 | Several times during the school year |

The analyses are presented in sections organized as follows:

- A. Historical Record of MCPS Test Results
- B. Analysis of Test Results by Racial/Ethnic Groups
- C. Analysis of Test Results by Sex
- D. Longitudinal Analysis of Results for Students Tested in 1976, 1978, and/or 1980
- E. Report of Students Achieving Competency on the Maryland Functional Reading Test Countywide and by Sex and Racial/Ethnic Category
- F. MCPS Student Performance on College Board Tests
- G. Summary of County Test Results

Technical terms used in this chapter are defined in detail in Appendix B.

Cautions to be Observed in Interpreting Data

Cautions must always be observed when making inferences based on descriptive data of the type used in this report because of the impossibility of controlling all of the intervening variables which affect these results. This section will discuss some of the cautions which should be observed in interpreting these data.

Differences in Group Membership

Different individuals are tested each year at each grade level. Therefore, groups and subgroups differ from year to year and from grade to grade. Differences in mean scores may occur simply because the groups or categories of students whose performance is being compared are composed of different individuals who vary in many ways. This must be kept in mind when one speaks of "improvements" or "declines" in all of the analyses included in this chapter. This caveat does not apply to the longitudinal groups in Section 1.D. The results for these groups are based on data derived from the same students over two or three testing periods, and differences in mean scores for these groups provide more meaningful information.

Fluctuations of Means of Small Groups

Some analyses involve the description and comparison of the mean scores for rather small groups of students. It is to be expected that these small-group means will probably deviate from county averages or will differ from one another more than the means of large groups. This sampling fluctuation must be taken into account when comparing mean scores between years, across grades, or among groups.

Differences in Tests and Norms

The subtests of the Cognitive Abilities Test, Iowa Tests of Basic Skills, and Tests of Academic Progress have the same or similar names at each grade level. However, the actual items making up the tests at each grade level are different. The Spelling subtest administered in Grade 3 is, therefore, not the same as the Spelling subtest administered in Grade 5 (and so on for other grades or test "levels").

The national norming samples at each grade also differed. Therefore, the national percentile ranks of a particular test battery may not be exactly comparable from grade to grade. (This is discussed in more detail in Appendix B.) Since the Tests of Academic Progress, which are administered in Grade 11, are completely different from the Iowa Tests of Basic Skills, comparisons should not be made between scores on the two batteries even if the subtests have similar names.

Percentile Ranks

The percentile rank (PR) scale is not an equal-interval numerical scale (see Appendix B). A given raw score or raw-score difference does not have the same meaning throughout the entire range of the PR scale. In some segments, a small difference in raw scores can result in a small difference in PR. In other segments of the scales, the same raw-score difference may result in somewhat larger differences in PR. Thus, PRs can magnify small differences in raw-score units and overemphasize the apparent importance of these differences, depending on what part of the score range you are using.

Because the scales are not consistent, PRs should not be subtracted in an attempt to find between-year, between-grade, or between-group differences in amounts of "improvement" or "decline." They should also not be subtracted to identify subject or curriculum areas in which "greater" or "smaller" changes have occurred. Finally, the mean score of PRs should not be computed.

Meaning of Reported Percentile Ranks

The percentile rank (PR) corresponding to the mean or median score of any group on any given test is the PR of an individual student who obtains that score. It does not represent the ranking of that group when compared to other similar groups. For example, let's assume that the PR reported for MCPS on the third grade Vocabulary subtest is 78. That does not mean that MCPS did better than 78 percent of the school districts in the norming sample. It does mean that the student achieving the MCPS mean score did better than 78 percent of the students in the norming sample.

Effect of Normal Curve Equivalent (NCE) Scores on Results

The relationship of normal curve equivalent (NCE) scores to percentile ranks results in some reported NCE scores having slightly different percentile ranks in different parts of the report. This happens because the closeness of PRs in the middle of the score distribution causes there to be less than one NCE point between some PRs. When the precise NCE value is rounded to a whole number, the result is the same NCE for two percentile ranks. For example, an NCE of 54 could be listed with a PR of 57 or 58. If the precise NCE value is between 53.5 and 53.99, the PR will be 57; if the precise NCE value is between 54 and 54.49, the PR will be 58.

Interpretation of Scores on Cognitive Abilities Test

Scores for the Cognitive Abilities Test are treated as achievement test results and analyzed with the Iowa Test scores because performance on the CAT is greatly influenced by what a student has learned and is considered by many experts to be a measure of achievement, not aptitude, ability, or intelligence.

1.A. HISTORICAL RECORD OF MCPS TEST RESULTS.

Introduction

This section presents an historical analysis of the average scores of MCPS students in recent years on the Iowa Tests of Basic Skills (ITBS), Tests of Academic Progress (TAP), and the Cognitive Abilities Test (CAT). Historical data provide a helpful indicator of general trends in achievement for MCPS. They can also be used to suggest instructional areas where teaching practices or curricular content need to be reexamined.

Data

The summary test results for all MCPS students are shown in Tables 1.A.1 to 1.A.4. The data for Grades 3 and 5 go back to 1972. For Grades 7, 9, and 11, the data go back only to 1974. In those latter grades the tests were administered at different times of the year in 1972 and 1973 than in 1974 and after. This would make any comparison of the results misleading.

Three kinds of data are presented here:

1. The national percentile ranks for the MCPS median student score are shown in Table 1.A.1. (The median is the middle score.) The medians are presented to be consistent with the data that have been reported for several years. Table 1.A.2 summarizes these results by indicating the number of subtests on which median scores went up and down and those that are at high and low points.
2. The national percentile ranks for the MCPS mean student score are shown in Table 1.A.3. (The mean is the arithmetic average score.) The means were computed by using grade equivalent (GE) scores to be consistent with the way results are reported to schools and in the Maryland Accountability Program Report (the report on all school districts in Maryland published by the State Department of Education).
3. The number and percentage of MCPS students who performed at or above the national average from 1977 to 1980 on each subtest for each grade is shown in Table 1.A.4.

Analysis

The trend in scores across the years is the most meaningful information that can be derived from these tables. Therefore, the scores are compared to determine whether they are increasing or decreasing at each grade level. No formal statistical analysis is required to make this determination.

Results

- The 1980 results showed an increase in median scores¹ in Grades 5 and 7 and stability at a high level of achievement in Grades 3, 9, and 11. Some highlights of the data follow:

- o In 1980 the national percentile rank of the MCPS median score was at the highest for 52 (84 percent) of the 62 subtests administered across Grades 3, 5, 7, 9, and 11.
- o In 1980 the national percentile rank of the MCPS median score was at its lowest for only 7 (11 percent) of the 62 subtests administered throughout all grades. These seven subtests were in Grades 9 and 11.
- o Median scores throughout all grades increased on 24 (39 percent) of the 62 subtests from 1979 to 1980. Only one subtest, in Grade 9, had a declining score from 1979 to 1980.
- o The most substantial increases from 1979 to 1980 occurred in Grades 5 and 7. Students in Grade 5 increased their scores on 8 of the 14 subtests, while students in Grade 7 increased their scores on 13 of the 14 subtests.
- o Scores on Capitalization and Punctuation were consistently among the highest for Grades 3, 5, 7, and 9 in 1980. The highest median score was on third grade Punctuation which was at the 87th percentile.
- o Reading Comprehension scores were lowest or next to lowest in Grades 3, 5, 7, and 9 in 1980.
- o Sixty-nine percent of MCPS students over all grades scored at or above the national norm average in 1980. These percentages ranged from a high of 80 percent in Grade 3 to a low of 58 percent in Grade 9.

¹The results for the MCPS mean are not discussed in detail here because they are almost the same as the results for the median.

TABLE 1.A.1

HISTORICAL RECORD OF MCPS TEST RESULTS

(National Percentile Rank of Student With MCPS Median)

| Grade | Year | Cognitive Abilities | | | Iowa Tests of Basic Skills | | | | | | | | | | | |
|-------|------|---------------------|--------|-------|----------------------------|------|--------|-------|-------|-------|------|--------|-----------|--------------|-------------|----|
| | | Test | | | Voc. | Rdg. | Spell. | Capt. | Punc. | Usage | Map | | Ref. Mat. | Arith. Conc. | Prob. Solv. | |
| | | Verb. | Quant. | Nonv. | | | | | | | Rdg. | Graphs | | | | |
| 3 | 72 | 71 | 77 | 67 | 69 | 63 | 72 | 73 | 75 | 70 | 70 | 68. | 61 | 66 | 62 | 73 |
| | 73 | 69 | 77 | 67 | 69 | 63 | 74 | 73 | 75 | 68 | 64 | 68 | 57 | 66 | 62 | 71 |
| | 74 | 69 | 77 | 73 | 62 | 63 | 72 | 73 | 71 | 68 | 64 | 68 | 57 | 66 | 62 | 71 |
| | 75 | 71 | 79 | 73 | 69 | 66 | 74 | 75 | 81 | 70 | 70 | 68 | 65 | 66 | 70 | 73 |
| | 76 | 75 | 83 | 75 | 69 | 68 | 78 | 79 | 83 | 70 | 76 | 76 | 65 | 69 | 70 | 76 |
| | 77 | 75 | 81 | 77 | 72 | 71 | 78 | 82 | 86 | 74 | 76 | 76 | 72 | 69 | 79 | 79 |
| | 78 | 79 | 83 | 77 | 72 | 71 | 79 | 82 | 87 | 74 | 76 | 83 | 76 | 69 | 79 | 79 |
| | 79 | 77 | 83 | 77 | 72 | 71 | 83 | 82 | 87 | 74 | 76 | 83 | 76 | 69 | 79 | 81 |
| 80 | 77 | 83 | 77 | 72 | 71 | 83 | 84 | 87 | 74 | 76 | 83 | 76 | 69 | 79 | 79 | |
| 5 | 72 | 71 | 71 | 69 | 65 | 62 | 65 | 64 | 65 | 69 | 63 | 65 | 64 | 67 | 59 | 70 |
| | 73 | 69 | 69 | 69 | 65 | 60 | 62 | 64 | 61 | 65 | 58 | 65 | 64 | 67 | 59 | 67 |
| | 74 | 69 | 71 | 73 | 62 | 60 | 62 | 61 | 61 | 65 | 63 | 65 | 64 | 65 | 59 | 64 |
| | 75 | 69 | 71 | 73 | 62 | 60 | 62 | 64 | 61 | 65 | 63 | 69 | 66 | 65 | 59 | 67 |
| | 76 | 71 | 73 | 77 | 62 | 60 | 65 | 69 | 65 | 65 | 63 | 69 | 66 | 67 | 65 | 70 |
| | 77 | 73 | 75 | 77 | 65 | 62 | 65 | 72 | 68 | 69 | 68 | 76 | 66 | 72 | 65 | 70 |
| | 78 | 75 | 75 | 81 | 65 | 62 | 67 | 72 | 68 | 69 | 73 | 76 | 68 | 72 | 65 | 72 |
| | 79 | 75 | 75 | 81 | 65 | 62 | 71 | 75 | 72 | 72 | 71 | 76 | 70 | 72 | 65 | 74 |
| 80 | 75 | 75 | 81 | 70 | 64 | 74 | 78 | 75 | 72 | 73 | 79 | 70 | 72 | 69 | 74 | |

TABLE 1.A.1 (Continued)

HISTORICAL RECORD OF MCPS TEST RESULTS

(National Percentile Rank of Student With MCPS Median)

| Grade | Year | Cognitive Abilities | | | Iowa Tests of Basic Skills | | | | | | | | | | Ref. Mat. | Arith. Conc. | Prob. Solv. | Comp. |
|-------|------|---------------------|--------|-------|----------------------------|------|--------|-------|-------|-------|----------|--------|----|----|-----------|--------------|-------------|-------|
| | | Verb. | Quant. | Nonv. | Voc. | Rdg. | Spell. | Capt. | Punc. | Usage | Map Rdg. | Graphs | | | | | | |
| 7 | 74 | 67 | 67 | 71 | 58 | 56 | 54 | 57 | 53 | 61 | 60 | 62 | 60 | 60 | 56 | 60 | | |
| | 75 | 65 | 67 | 71 | 58 | 54 | 54 | 60 | 53 | 57 | 60 | 62 | 60 | 60 | 56 | 60 | | |
| | 76 | 67 | 69 | 75 | 60 | 54 | 54 | 64 | 62 | 61 | 64 | 62 | 60 | 64 | 56 | 62 | | |
| | 77 | 67 | 69 | 75 | 58 | 54 | 58 | 64 | 62 | 61 | 64 | 62 | 60 | 64 | 56 | 62 | | |
| | 78 | 67 | 69 | 75 | 60 | 54 | 58 | 64 | 62 | 61 | 64 | 62 | 60 | 64 | 56 | 62 | | |
| | 79 | 67 | 69 | 75 | 58 | 54 | 58 | 64 | 66 | 61 | 64 | 62 | 60 | 64 | 56 | 62 | | |
| | 80 | 69 | 73 | | 60 | 56 | 61 | 67 | 66 | 64 | 68 | 68 | 63 | 66 | 62 | 66 | | |
| 9 | 74 | 69 | 75 | 73 | 61 | 58 | 54 | 58 | 59 | 59 | 68 | 59 | 61 | 58 | 55 | 62 | | |
| | 75 | 67 | 73 | 73 | 57 | 56 | 54 | 58 | 59 | 59 | 63 | 54 | 60 | 58 | 50 | 62 | | |
| | 76 | 69 | 75 | 77 | 57 | 55 | 52 | 62 | 59 | 59 | 63 | 54 | 60 | 58 | 55 | 62 | | |
| | 77 | 69 | 77 | 77 | 57 | 55 | 54 | 62 | 62 | 59 | 63 | 59 | 61 | 61 | 55 | 62 | | |
| | 78 | 69 | 75 | 77 | 61 | 55 | 54 | 62 | 62 | 59 | 68 | 59 | 60 | 58 | 55 | 62 | | |
| | 79 | 69 | 75 | 77 | 57 | 55 | 54 | 62 | 62 | 59 | 68 | 59 | 61 | 58 | 55 | 62 | | |
| | 80 | 69 | 77 | 79 | 57 | 55 | 54 | 62 | 62 | 59 | 63 | 59 | 61 | 58 | 55 | 62 | | |

TABLE 1.A.1 (Continued)

HISTORICAL RECORD OF MCPS TEST RESULTS

(National Percentile Rank of Student with MCPS Median)

| Grade | Year | Cognitive Abilities Test | | | Tests of Academic Progress | | | | | | |
|-------|------|--------------------------|-------|--------|----------------------------|---------|---------|---------|-------|------|-------|
| | | Verb. | Nonv. | Quant. | Social Studies | English | Science | Reading | Math. | Lit. | Comp. |
| 11 | 74 | 73 | -- | 77 | 64 | 62 | 69 | 64 | 71 | 57 | 67 |
| | 75 | 71 | -- | 77 | 61 | 58 | 69 | 64 | 71 | 57 | 67 |
| | 76 | 73 | -- | 81 | 58 | 58 | 64 | 60 | 71 | 57 | 67 |
| | 77 | 71 | -- | 75 | 58 | 58 | 64 | 60 | 69 | 57 | 63 |
| | 78 | 71 | 75 | -- | 54 | 58 | 64 | 60 | 69 | 57 | 63 |
| | 79 | 69 | 75 | -- | 54 | 62 | 64 | 60 | 71 | 57 | 63 |
| | 80 | -- | -- | -- | 54 | 62 | 64 | 60 | 71 | 57 | 63 |

TABLE 1.A.2.

SUMMARY OF COUNTYWIDE TEST SCORE TRENDS ON
CAT, ITBS AND TAP BY GRADE USING MEDIAN

| Grade | 3 | | 5 | | 7 | | 9 | | 11 | Total |
|----------------------------|----------------|------|-----|------|-----|------|-----|------|-----|-------|
| Test | CAT | ITBS | CAT | ITBS | CAT | ITBS | CAT | ITBS | TAP | |
| Increased From 1978-79 | 0 | 1 | 0 | 8 | 3 | 10 | 2 | 0 | 0 | 24 |
| Unchanged From 1978-79 | 3 | 10 | 3 | 3 | 0 | 1 | 1 | 10 | 6 | 37 |
| Decreased From 1978-79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| All-time high ^a | 2 ^c | 11 | 3 | 11 | 3 | 11 | 3 | 6 | 2 | 52 |
| Unchanged ^b | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| All-time low | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 7 |

^aThe high or low points for 9 years in Grades 3 and 5 and for 7 years in Grades 7, 9 and 11.

^bScore has been the same for 9 years in Grades 3 and 5 or for 7 years in Grades 7, 9 and 11.

^cThe county median for CAT Verbal in Grade 3 was between the all-time high and low scores.

TABLE 1.A.3

HISTORICAL RECORD OF MCPS TEST RESULTS

(National Percentile Rank of Student With MCPS Mean)

| Grade | Year | Cognitive Abilities | | | Iowa Tests of Basic Skills | | | | | | | | | | Ref. Mat. | Arith. Conc. | Prob. Solv. | Comp. |
|-------|------|---------------------|--------|-------|----------------------------|------|--------|-------|-------|-------|----------|--------|----|----|-----------|--------------|-------------|-------|
| | | Verb. | Quant. | Nonv. | Voc. | Rdg. | Spell. | Capt. | Punc. | Usage | Map Rdg. | Graphs | | | | | | |
| 3 | 72 | 65 | 73 | 67 | 62 | 60 | 68 | 68 | 71 | 64 | 67 | 65 | 61 | 63 | 62 | 71 | | |
| | 73 | 69 | 73 | 67 | 62 | 60 | 68 | 66 | 69 | 62 | 64 | 65 | 61 | 63 | 62 | 68 | | |
| | 74 | 67 | 73 | 69 | 62 | 60 | 68 | 66 | 69 | 60 | 64 | 65 | 57 | 59 | 62 | 68 | | |
| | 75 | 69 | 75 | 71 | 62 | 63 | 70 | 71 | 75 | 64 | 67 | 68 | 65 | 63 | 66 | 74 | | |
| | 76 | 73 | 81 | 73 | 65 | 64 | 72 | 73 | 77 | 66 | 70 | 71 | 67 | 66 | 70 | 73 | | |
| | 77 | 75 | 81 | 73 | 69 | 68 | 74 | 75 | 78 | 68 | 73 | 74 | 69 | 69 | 75 | 73 | | |
| | 78 | 77 | 81 | 75 | 69 | 68 | 76 | 77 | 80 | 68 | 73 | 76 | 72 | 69 | 75 | 76 | | |
| | 79 | 77 | 83 | 75 | 72 | 68 | 76 | 77 | 81 | 68 | 76 | 79 | 72 | 73 | 75 | 76 | | |
| 80 | 77 | 83 | 75 | 72 | 68 | 78 | 79 | 81 | 68 | 76 | 79 | 76 | 69 | 75 | 76 | | | |
| 5 | 72 | 67 | 67 | 65 | 62 | 60 | 60 | 61 | 61 | 62 | 63 | 62 | 61 | 67 | 59 | 64 | | |
| | 73 | 69 | 67 | 67 | 60 | 57 | 60 | 59 | 61 | 60 | 61 | 62 | 59 | 67 | 59 | 64 | | |
| | 74 | 69 | 67 | 71 | 60 | 57 | 58 | 59 | 58 | 58 | 63 | 65 | 59 | 65 | 59 | 62 | | |
| | 75 | 69 | 69 | 73 | 60 | 57 | 60 | 61 | 59 | 60 | 66 | 65 | 61 | 65 | 64 | 64 | | |
| | 76 | 71 | 73 | 75 | 60 | 60 | 62 | 62 | 61 | 60 | 63 | 67 | 63 | 67 | 62 | 64 | | |
| | 77 | 73 | 75 | 75 | 62 | 60 | 62 | 66 | 63 | 63 | 68 | 69 | 64 | 70 | 61 | 67 | | |
| | 78 | 75 | 75 | 77 | 62 | 62 | 64 | 67 | 65 | 63 | 66 | 72 | 66 | 72 | 65 | 70 | | |
| | 79 | 75 | 75 | 77 | 65 | 62 | 67 | 69 | 67 | 65 | 71 | 72 | 68 | 70 | 65 | 70 | | |
| 80 | 75 | 75 | 77 | 65 | 64 | 67 | 71 | 68 | 65 | 71 | 74 | 68 | 72 | 69 | 72 | | | |

TABLE 1.A.3 (Continued)

HISTORICAL RECORD OF MCPS TEST RESULTS

(National Percentile Rank of Student With MCPS Mean)

| Grade | Year | Cognitive Abilities | | | Iowa Tests of Basic Skills | | | | | | | | | | | Ref. Mat. | Arith. Conc. | Prob. Solv. | Comp. |
|-------|------|---------------------|--------|----|----------------------------|------|------|--------|-------|-------|-------|------|----|--------|----|--------------|-----------------|----------------|-------|
| | | Verb. | Test | | Nonv. | Voc. | Rdg. | Spell. | Capt. | Punc. | Usage | Map | | Graphs | | | | | |
| | | | Quant. | | | | | | | | | Rdg. | | | | | | | |
| 7 | 74 | 67 | 67 | 69 | 54 | 54 | 51 | 54 | 51 | 53 | 59 | 58 | 56 | 60 | 52 | 58 | | | |
| | 75 | 65 | 67 | 71 | 54 | 52 | 51 | 56 | 51 | 53 | 59 | 56 | 56 | 60 | 52 | 58 | | | |
| | 76 | 67 | 73 | 73 | 54 | 52 | 51 | 57 | 54 | 54 | 60 | 56 | 56 | 60 | 52 | 58 | | | |
| | 77 | 67 | 71 | 73 | 54 | 52 | 53 | 59 | 56 | 55 | 60 | 58 | 58 | 62 | 52 | 58 | | | |
| | 78 | 67 | 71 | 73 | 56 | 52 | 53 | 59 | 56 | 55 | 60 | 58 | 58 | 62 | 54 | 60 | | | |
| | 79 | 67 | 71 | 73 | 56 | 52 | 54 | 61 | 58 | 55 | 60 | 59 | 58 | 62 | 54 | 60 | | | |
| | 80 | 69 | 73 | 75 | 58 | 54 | 56 | 63 | 59 | 57 | 62 | 62 | 61 | 64 | 56 | 62 | | | |
| 9 | 74 | 69 | 73 | 73 | 57 | 53 | 49 | 53 | 50 | 52 | 61 | 54 | 55 | 55 | 51 | 58 | | | |
| | 75 | 67 | 71 | 73 | 55 | 51 | 49 | 53 | 51 | 52 | 59 | 52 | 55 | 53 | 50 | 56 | | | |
| | 76 | 69 | 75 | 77 | 55 | 51 | 48 | 53 | 51 | 53 | 59 | 54 | 53 | 53 | 51 | 56 | | | |
| | 77 | 69 | 75 | 77 | 55 | 51 | 49 | 54 | 53 | 53 | 59 | 54 | 55 | 55 | 51 | 56 | | | |
| | 78 | 69 | 75 | 79 | 57 | 51 | 49 | 56 | 54 | 53 | 61 | 54 | 55 | 53 | 51 | 58 | | | |
| | 79 | 69 | 75 | 79 | 55 | 50 | 51 | 56 | 54 | 53 | 60 | 54 | 55 | 52 | 51 | 56 | | | |
| | 80 | 69 | 77 | 79 | 55 | 51 | 51 | 56 | 56 | 54 | 61 | 56 | 56 | 53 | 53 | 58 | | | |

TABLE 1.A.3 (Continued)

HISTORICAL RECORD OF MCPS TEST RESULTS

(National Percentile Rank of Students With MCPS Mean)

| Grade | Year | Cognitive Abilities | | | Tests of Academic Progress | | | | | | |
|-------|------|---------------------|-------|--------|----------------------------|---------|---------|---------|-------|------|-------|
| | | Verb. | Nonv. | Quant. | Social Studies | English | Science | Reading | Math. | Lit. | Comp. |
| 11 | 74 | 73 | 77 | - | 64 | 58 | 69 | 64 | 71 | 57 | 67 |
| | 75 | 71 | 77 | - | 61 | 58 | 69 | 64 | 71 | 61 | 67 |
| | 76 | 73 | 81 | - | 58 | 58 | 64 | 60 | 69 | 57 | 63 |
| | 77 | 71 | 73 | - | 58 | 58 | 64 | 60 | 69 | 57 | 63 |
| | 78 | 71 | - | 75 | 54 | 58 | 64 | 60 | 69 | 57 | 63 |
| | 79 | 71 | - | 75 | 54 | 62 | 64 | 60 | 69 | 57 | 63 |
| | 80 | - | - | - | 54 | 62 | 64 | 60 | 69 | 57 | 63 |

TABLE 1.A.4

NUMBER (#) AND PERCENTAGE (%) OF STUDENTS AT OR ABOVE
THE NATIONAL AVERAGE* ON ITBS, CAT, AND TAP

| Cognitive Abilities Test | | | | | | | | | | Iowa Tests of Basic Skills | | | | | | | | | | | | | | | | | | | | | |
|---|------|--------------------------|----|--------|----|----------------|----------------------------|---------|----|----------------------------|----|--------|----|------------|----|-----------|-------------|------|----------|------|---------------|------|-----------|-------------|----|-------------|----|-------|----|------|----|
| Grade | Year | Verbal | | Quant. | | Nonv. | | Vocab. | | Read. Comp. | | Spell. | | Capital. | | Punc. | Lang. Usage | | Map Rdg. | | Graphs/Tables | | Ref. Mat. | Math. Conc. | | Math. Prob. | | Comp. | | | |
| | | # | % | # | % | # | % | # | % | # | % | # | % | # | % | | # | % | # | % | # | % | | # | % | # | % | | # | % | |
| 3 | 77 | 5688 | 76 | 5885 | 79 | 5653 | 76 | 5463 | 73 | 5426 | 73 | 5990 | 80 | 6158 | 83 | 5620 | 75 | 5736 | 77 | 5581 | 75 | 5897 | 79 | 5293 | 71 | 5574 | 75 | 5328 | 71 | 5748 | 78 |
| | 78 | 5927 | 77 | 6151 | 80 | 5904 | 77 | 5650 | 74 | 5648 | 74 | 6250 | 82 | 6488 | 85 | 5970 | 78 | 6020 | 78 | 5742 | 75 | 6114 | 80 | 5572 | 73 | 5663 | 74 | 5545 | 72 | 5973 | 78 |
| | 79 | 5583 | 78 | 5719 | 80 | 5526 | 77 | 5422 | 75 | 5339 | 74 | 6070 | 84 | 6140 | 85 | 5921 | 82 | 5613 | 78 | 5503 | 77 | 5932 | 83 | 5234 | 73 | 5579 | 78 | 5249 | 73 | 5711 | 80 |
| | 80 | 5150 | 78 | 5260 | 79 | 5116 | 77 | 5044 | 76 | 4948 | 74 | 5631 | 85 | 5714 | 86 | 5469 | 82 | 5189 | 78 | 5082 | 77 | 5481 | 83 | 4931 | 74 | 5017 | 75 | 4745 | 71 | 5289 | 80 |
| *The national average is a grade equivalent score of 3.7 on the Iowa Tests of Basic Skills and a percentile rank of 50 on the Cognitive Abilities Test. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 5893 | 75 | 5767 | 73 | 6352 | 81 | 5349 | 68 | 5012 | 64 | 5101 | 65 | 5616 | 72 | 5356 | 68 | 5689 | 73 | 5450 | 69 | 5633 | 72 | 5488 | 70 | 5593 | 71 | 5114 | 65 | 5429 | 70 |
| | 78 | 5906 | 77 | 5680 | 75 | 6292 | 83 | 5244 | 69 | 5062 | 66 | 5140 | 67 | 5609 | 74 | 5365 | 70 | 5640 | 74 | 5429 | 71 | 5608 | 74 | 5564 | 73 | 5578 | 73 | 5157 | 68 | 5423 | 72 |
| | 79 | 5710 | 78 | 5513 | 75 | 6141 | 84 | 5521 | 71 | 4956 | 68 | 5152 | 70 | 5522 | 75 | 5497 | 75 | 5556 | 76 | 5261 | 72 | 5484 | 75 | 5446 | 75 | 5294 | 72 | 4976 | 68 | 5342 | 73 |
| | 80 | 5904 | 79 | 5668 | 75 | 6242 | 83 | 5436 | 72 | 5134 | 68 | 5508 | 73 | 5829 | 77 | 5739 | 76 | 5824 | 77 | 5412 | 72 | 5740 | 76 | 5715 | 76 | 5450 | 72 | 5239 | 70 | 5579 | 75 |
| *The national average is a grade equivalent score of 5.7 on the Iowa Tests of Basic Skills and a percentile rank of 50 on the Cognitive Abilities Test. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 77 | 6112 | 68 | 6329 | 70 | 6818 | 76 | 5720 | 64 | 5349 | 60 | 5308 | 59 | 5993 | 67 | 5611 | 63 | 6003 | 67 | 6188 | 69 | 5617 | 63 | 5772 | 65 | 5850 | 65 | 5478 | 61 | 5559 | 64 |
| | 78 | 5589 | 69 | 5774 | 71 | 6155 | 76 | 5294 | 65 | 4943 | 61 | 4902 | 60 | 5476 | 67 | 5233 | 64 | 5524 | 68 | 5561 | 68 | 5091 | 63 | 5243 | 64 | 5390 | 66 | 5029 | 62 | 5150 | 65 |
| | 79 | 5340 | 69 | 5513 | 72 | 5953 | 77 | 4956 | 64 | 4645 | 60 | 4748 | 62 | 5317 | 69 | 5054 | 66 | 5248 | 68 | 5305 | 69 | 4906 | 64 | 5020 | 65 | 5176 | 67 | 4750 | 62 | 4882 | 65 |
| | 80 | 5128 | 70 | 5325 | 72 | 5731 | 78 | 4923 | 67 | 4570 | 62 | 4612 | 63 | 5245 | 72 | 4960 | 68 | 5105 | 70 | 5245 | 72 | 4874 | 67 | 5011 | 68 | 5081 | 69 | 4706 | 64 | 4839 | 68 |
| *The national average is a grade equivalent score of 7.6 on the Iowa Tests of Basic Skills and a percentile rank of 50 on the Cognitive Abilities Test. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 77 | 6596 | 70 | 6887 | 74 | 7308 | 78 | 4998 | 53 | 4854 | 52 | 4817 | 52 | 5662 | 61 | 5447 | 58 | 5753 | 62 | 5691 | 61 | 5345 | 57 | 5463 | 59 | 5654 | 61 | 4717 | 51 | 5123 | 58 |
| | 78 | 6342 | 70 | 6584 | 73 | 7114 | 79 | 4907 | 54 | 4704 | 52 | 4742 | 52 | 5589 | 62 | 5281 | 58 | 5571 | 62 | 5513 | 61 | 5169 | 57 | 5239 | 58 | 5282 | 59 | 4564 | 51 | 4947 | 58 |
| | 79 | 6166 | 70 | 6390 | 73 | 6930 | 79 | 4729 | 53 | 4474 | 50 | 4708 | 53 | 5488 | 62 | 5231 | 59 | 5502 | 62 | 5482 | 62 | 5058 | 57 | 5233 | 59 | 5137 | 58 | 4450 | 50 | 4825 | 57 |
| | 80 | 5721 | 71 | 5926 | 74 | 6367 | 80 | 4311 | 53 | 4128 | 51 | 4237 | 53 | 4986 | 62 | 4923 | 61 | 5085 | 63 | 4990 | 62 | 4708 | 58 | 4828 | 60 | 4642 | 58 | 4181 | 52 | 4425 | 58 |
| *The national average is a grade equivalent score of 9.6 on the Iowa Tests of Basic Skills and a percentile rank of 50 on the Cognitive Abilities Test. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grade | Year | Cognitive Abilities Test | | | | Social Studies | Tests of Academic Progress | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Verbal | | Quant. | | | Comp. | Science | | Reading | | Math | | Literature | | Composite | | | | | | | | | | | | | | | |
| | | # | % | # | % | | | # | % | # | % | # | % | # | % | | # | % | | | | | | | | | | | | | |
| 11 | 77 | 6282 | 71 | -- | -- | 6735 | 76 | 5527 | 62 | 5770 | 65 | 5706 | 64 | 5742 | 65 | 5933 | 68 | 5795 | 66 | 5643 | 68 | | | | | | | | | | |
| | 78 | 6126 | 71 | 6244 | 73 | -- | -- | 5265 | 60 | 5589 | 64 | 5610 | 64 | 5459 | 63 | 5795 | 67 | 5517 | 64 | 5449 | 67 | | | | | | | | | | |
| | 79 | 5844 | 71 | 5998 | 73 | -- | -- | 5053 | 60 | 5565 | 66 | 5488 | 65 | 5341 | 64 | 5742 | 69 | 5439 | 65 | 5249 | 67 | | | | | | | | | | |
| | 80 | -- | -- | -- | -- | -- | -- | 5012 | 60 | 5476 | 66 | 5407 | 65 | 5235 | 63 | 5646 | 69 | 5405 | 66 | 5277 | 67 | | | | | | | | | | |
| *The national average is a percentile rank of 50. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1.B. ANALYSIS OF TEST RESULTS BY
RACIAL/ETHNIC GROUPS

Introduction

In the spring of 1978, MCPS released an analysis of results from the 1976-77 testing program which showed a gap in performance between black students and white students at all grade levels. This caused considerable concern among administrators, teachers, and parents. In response, the superintendent of schools identified educational equity as a priority objective for the following five years. One indication of the degree to which MCPS is meeting this objective is obtained from an analysis of the performance of various racial/ethnic groups (white, black, Hispanic, and Asian) on the Iowa Tests of Basic Skills (ITBS), the Tests of Academic Progress (TAP), and the Cognitive Abilities Test (CAT). This analysis will provide answers to the following questions:

1. What was the range of test scores in each racial/ethnic group for 1980?
2. What was the trend of average scores for each racial/ethnic group from 1977 to 1980?
3. How have the differences in average test performance between majority and minority racial/ethnic groups changed between 1977 and 1980?

Data

The stanine distributions for each racial/ethnic group on the ITBS/TAP Composite score for 1980 are listed in Table 1.B.1. This makes it possible to see how entire groups have performed and, therefore, provides data to show the range of test scores.

The NCE mean scores on the Composite for each group for 1977 and 1980 are shown in Table 1.B.2. These scores illustrate the size of the differences between the two years.

The number of subtests on which each racial/ethnic group improved, stayed the same, and declined from 1977 to 1980 is shown in Table 1.B.3. These data show the consistency of the subtest score trend within each group.

The comparisons of white student performance with the performance of black students, Hispanic students, and Asian students are summarized in Tables 1.B.4 to 1.B.6.

The trends of average Composite scores by year from 1977 to 1980 for each racial/ethnic group are illustrated in Figures 1.B.1 to 1.B.4. NCE scores were used to develop these figures. These figures make it easy to see if score increases or decreases represented a four-year trend or were the result of a big change in one year.

The mean scores on each subtest for each group at each grade level are shown in Tables A1 to A6 in the Appendix. These scores are reported as percentile ranks and normal curve equivalents (NCE). The percentages of students tested in each group from 1977 to 1980 are presented in Tables A7 to A10 in the Appendix.

Analysis

The answers to the questions pertaining to the racial/ethnic groups were obtained by looking at test score trends in two ways. First, the pattern of subtest differences between groups was examined. Second, the magnitude of the overall differences between groups was assessed.

In addition, the results were reported in two ways. First, the data were examined within each racial/ethnic group. Second, the majority and the minority group data were compared.

Pattern of Differences

The pattern of differences among subtests was reviewed to see if one group scored consistently higher or lower than another group in a variety of subject areas. When looking at the score difference between groups, only the direction is considered. If scores on a subtest increased from 1977 to 1980, it would count as one increase regardless of the magnitude of the difference. Table 1.B.3 was developed by using the pattern of differences. The significance of the pattern was determined by using the sign test.¹

Magnitude

The size of the score differences between groups is not seen by reviewing the pattern of increases and decreases. To determine whether or not the difference is significant, a comparison of mean Composite scores of those groups was undertaken. Table 1.B.2 shows the size of the difference between NCE Composite scores from 1977 to 1980 for each group. Increases or decreases of more than seven NCE points between the group Composite scores are considered significant.²

Both analyses are needed because they each address different concepts. It is possible to have a significant pattern of increases or decreases without the size of the differences being very large. This could mean that one group scored consistently higher on a significant number of tests, but the

¹The sign test is based on the assumption that the differences will be evenly divided between increases and decreases. If the pattern is substantially different from this assumption, it is considered significant. Significance is defined as any pattern that would have less than a 5 percent probability of occurring by accident if the assumption of equal increases and decreases were true.

²Seven NCE points represent a change of one-third of a standard deviation. This standard is often used in educational evaluation to indicate meaningful change.

differences were small. It is also possible to have a significant size difference with no significant pattern of increases or decreases. This could indicate that one group's average achievement level was higher but the lower group had some strong subject areas.

Results

Highlights

The major conclusions of the analyses of test results by racial/ethnic groups indicate the following points:

- o All four racial/ethnic groups had some students scoring very high (9th stanine) and very low (1st stanine).
- o Test scores have generally improved over the last four years for white and black students. Fewer scores went up for the Asian and Hispanic students.
- o Black students improved on more subtests than any other group. They also had larger improvements than the other groups.
- o Score differences between black and white students have decreased in 59 (95 percent) of 62 subtests over the last four years.
- o Score differences between Hispanic and white students have increased over the last four years in Grades 3, 5, and 7, decreased in Grade 9 and remained the same in Grade 11. Most of the increases at the elementary grades occurred in 1980.
- o Score differences between white and Asian students have decreased since 1977.
- o White students still scored significantly higher than black students and Hispanic students in 1980.
- o Asian students scored higher than white students on a majority of subtests.
- o Most of the score changes on the individual subtests were small.

Range of Scores Within Groups (Question 1)

While there were clear differences in the performance of the four groups studied, each group had students scoring across the full range of scores. This indicates that there were students achieving at various levels in all groups. The stanine distributions in Table 1.B.1 demonstrate this point for the ITBS Composite.

Results Within Groups (Question 2)

White Students. Scores for white students showed an increase on 47 (76 percent) of the 62 subtests across all grade levels from 1977 to 1980. This

included a significant pattern of increases in Grades 3, 5, and 7. Grade 9 had the only subtest that went down. All changes were small, i.e., less than 7 NCE points.

Black Students. Scores for black students showed an increase on 61 (98 percent) of the 62 subtests across all grade levels from 1977 to 1980. This represented a significant pattern of increases in every grade tested. Scores remained the same on one subtest in Grade 3. None of the increases, however, were significant in size.

Hispanic Students. Scores for Hispanic students showed increases on 28 (45 percent) of the 62 subtests from 1979 to 1980. The scores decreased on 24 subtests. This resulted from a significant pattern of increases in Grades 7 and 9 but a significant pattern of decreases in Grade 3. Much of the Grade 3 decline occurred during the last year, 1979 to 1980. Grade 5 Hispanic students also had a decline on a significant number of subtests from 1979 to 1980. This eliminated most of the increases from the previous year. None of the individual subtest increases or decreases were significant in size.

Asian Students. Scores for Asian students showed increases and decreases on the same number of subtests (25 each from 1977 to 1980). Patterns of increases were significant in Grades 3 and 11. The pattern of decreases was significant in Grade 7. None of the increases or decreases on individual subtests were significant in size.

Majority/Minority Comparisons (Question 3)

White Students Compared to Black Students. White students scored higher than black students on every subtest. The difference between black student scores and white student scores decreased on 59 (95 percent) of the 62 subtests over all grades from 1977 to 1980. This represented a significant pattern in every grade. The three subtests on which the difference did not decrease were at the elementary level. However, the size of the decreases was not significant, and the differences in test scores between the two groups was still substantial.

White Students Compared to Hispanic Students. On every subtest white student scores were higher than Hispanic student scores. The difference between the scores of white students and Hispanic students increased on 38 (61 percent) of the 62 subtests over all grades. The differences decreased on 15. The pattern of differences was significant in Grades 3, 5, and 9. The score differences in Grades 3 and 5 increased and the score differences in Grade 9 decreased. The significant pattern of increases in Grade 3 was a complete reversal from the previous year. The size of the increases or decreases was not significant. However, the size of the differences between the two groups was still substantial in most cases.

White Students Compared to Asian Students. Asian students scored higher than white students on 42 (68 percent) of the 62 subtests. On these 42 subtests the differences decreased on the majority (31), and increased on eight. This represented a significant pattern of decreases in Grades 5 and 7. However, the size of the differences was not significant. On the other side, white students scored higher than Asian students on only five subtests. These five subtests all deal with language skills: Vocabulary and Reading Comprehension in Grade 3 and Vocabulary, Capitalization, and Language Usage in Grade 5.

TABLE 1.B.1

PERCENTAGE OF STUDENTS IN EACH RACIAL/ETHNIC GROUP SCORING AT
EACH STANINE ON THE ITBS/TAP COMPOSITE

| Stanine | Grade 3 | | | | | |
|---------|---------|-------|-------|----------|--------|--------|
| | White | Black | Asian | Hispanic | County | Norm** |
| 9 | 12 | 3 | 12 | 3 | 11 | 4 |
| 8 | 24 | 10 | 26 | 14 | 22 | 7 |
| 7 | 22 | 11 | 25 | 14 | 21 | 12 |
| 6 | 19 | 22 | 17 | 25 | 19 | 17 |
| 5 | 12 | 20 | 14 | 19 | 13 | 20 |
| 4 | 5 | 13 | 3 | 13 | 6 | 17 |
| 3 | 3 | 9 | 2 | 6 | 4 | 12 |
| 2 | 2 | 8 | 0 | 4 | 3 | 7 |
| 1 | 1 | 5 | 0 | 1 | 1 | 4 |
| Number | 5259 | 750 | 383 | 202 | 6608* | |

| Stanine | Grade 5 | | | | | |
|---------|---------|-------|-------|----------|--------|---------|
| | White | Black | Asian | Hispanic | County | Norm ** |
| 9 | 10 | 1 | 12 | 2 | 9 | 4 |
| 8 | 17 | 3 | 19 | 5 | 15 | 7 |
| 7 | 24 | 9 | 25 | 17 | 22 | 12 |
| 6 | 19 | 17 | 18 | 22 | 19 | 17 |
| 5 | 17 | 23 | 15 | 25 | 17 | 20 |
| 4 | 7 | 18 | 4 | 11 | 8 | 17 |
| 3 | 4 | 13 | 3 | 7 | 5 | 12 |
| 2 | 1 | 7 | 1 | 5 | 2 | 7 |
| 1 | 1 | 9 | 3 | 7 | 2 | 4 |
| Number | 6087 | 806 | 365 | 198 | 7479* | |

| Stanine | Grade 7 | | | | | |
|---------|---------|-------|-------|----------|--------|--------|
| | White | Black | Asian | Hispanic | County | Norm** |
| 9 | 6 | 1 | 10 | 1 | 5 | 4 |
| 8 | 12 | 2 | 16 | 5 | 11 | 7 |
| 7 | 21 | 8 | 23 | 12 | 19 | 12 |
| 6 | 20 | 12 | 18 | 20 | 19 | 17 |
| 5 | 20 | 19 | 19 | 23 | 20 | 20 |
| 4 | 12 | 21 | 9 | 24 | 13 | 17 |
| 3 | 5 | 15 | 3 | 7 | 6 | 12 |
| 2 | 3 | 11 | 2 | 7 | 4 | 7 |
| 1 | 1 | 11 | 1 | 1 | 2 | 4 |
| Number | 5818 | 778 | 329 | 221 | 7160* | |

*County total does not equal the sum of the four racial/ethnic groups shown because it includes other small groups.

**Students in national sample who were used to develop the test norms.

TABLE 1.B.1 (Continued)

PERCENTAGE OF STUDENTS IN EACH RACIAL/ETHNIC GROUP SCORING AT
EACH STANINE ON THE ITBS/TAP COMPOSITE

| Stanine | Grade 9 | | | | | |
|---------|---------|-------|-------|----------|--------|--------|
| | White | Black | Asian | Hispanic | County | Norm** |
| 9 | 4 | 1 | 7 | 1 | 4 | 4 |
| 8 | 13 | 2 | 15 | 7 | 12 | 7 |
| 7 | 17 | 5 | 18 | 14 | 16 | 12 |
| 6 | 21 | 11 | 16 | 15 | 19 | 17 |
| 5 | 23 | 18 | 22 | 26 | 23 | 20 |
| 4 | 13 | 19 | 14 | 20 | 14 | 17 |
| 3 | 4 | 18 | 2 | 9 | 6 | 12 |
| 2 | 3 | 15 | 4 | 7 | 4 | 7 |
| 1 | 2 | 12 | 2 | 2 | 3 | 4 |
| Number | 6418 | 739 | 297 | 220 | 7686* | |

| Stanine | Grade 11 | | | | | |
|---------|----------|-------|-------|----------|--------|--------|
| | White | Black | Asian | Hispanic | County | Norm** |
| 9 | 10 | 2 | 16 | 3 | 9 | 4 |
| 8 | 11 | 3 | 17 | 4 | 10 | 7 |
| 7 | 15 | 5 | 10 | 8 | 14 | 12 |
| 6 | 21 | 10 | 15 | 21 | 20 | 17 |
| 5 | 18 | 16 | 18 | 23 | 18 | 20 |
| 4 | 12 | 16 | 13 | 15 | 12 | 17 |
| 3 | 8 | 19 | 5 | 10 | 9 | 12 |
| 2 | 4 | 14 | 5 | 8 | 5 | 7 |
| 1 | 2 | 16 | 2 | 9 | 3 | 4 |
| Number | 6684 | 662 | 264 | 206 | 7833* | |

*County total does not equal the sum of the four racial/ethnic groups shown because it includes other small groups.

**Students in national sample who were used to develop the test norms.

TABLE 1.B.2

ITBS MEAN COMPOSITE SCORES 1977 AND 1980

(Reported in Normal Curve Equivalent Scores)

| Race | Grade | 1977 | 1980 | Change |
|----------|-------|------|------|--------|
| White | 3 | 66 | 68 | 4 |
| | 5 | 62 | 65 | -3 |
| | 7 | 57 | 60 | 3 |
| | 9 | 58 | 58 | 0 |
| | 11 | 59 | 60 | 1 |
| Black | 3 | 47 | 51 | 4 |
| | 5 | 39 | 44 | 5 |
| | 7 | 34 | 41 | 7 |
| | 9 | 35 | 38 | 3 |
| | 11 | 34 | 38 | 4 |
| Hispanic | 3 | 59 | 57 | -2 |
| | 5 | 52 | 52 | 0 |
| | 7 | 49 | 50 | 1 |
| | 9 | 48 | 50 | 2 |
| | 11 | 47 | 48 | 1 |
| Asian | 3 | 68 | 70 | 2 |
| | 5 | 66 | 66 | 0 |
| | 7 | 65 | 64 | -1 |
| | 9 | 62 | 60 | -2 |
| | 11 | 62 | 63 | 1 |

TABLE 1.B.3

NUMBER AND SIGNIFICANCE* OF SUBTESTS ON WHICH SCORE
INCREASED (UP) REMAINED THE SAME (SAME) OR DECREASED (DOWN)
FROM 1977 TO 1980 BY RACE

| Race | Grade | Up | Down | Same | Significance |
|----------|--------|----|------|------|--------------|
| White | 3 | 12 | 0 | 2 | S |
| | 5 | 14 | 0 | 0 | S |
| | 7 | 14 | 0 | 0 | S |
| | 9 | 4 | 1 | 9 | NS |
| | 11 | 3 | 0 | 3 | NS |
| | Totals | 47 | 1 | 14 | S |
| Black | 3 | 13 | 0 | 1 | S |
| | 5 | 14 | 0 | 0 | S |
| | 7 | 14 | 0 | 0 | S |
| | 9 | 14 | 0 | 0 | S |
| | 11 | 6 | 0 | 0 | S |
| | Totals | 61 | 0 | 1 | S |
| Hispanic | 3 | 1 | 12 | 1 | S |
| | 5 | 4 | 8 | 2 | NS |
| | 7 | 8 | 2 | 4 | S |
| | 9 | 12 | 0 | 2 | S |
| | 11 | 3 | 2 | 1 | NS |
| | Totals | 28 | 24 | 10 | NS |
| Asian | 3 | 11 | 1 | 2 | S |
| | 5 | 5 | 4 | 5 | NS |
| | 7 | 0 | 9 | 5 | S |
| | 9 | 3 | 11 | 0 | NS |
| | 11 | 6 | 0 | 0 | S |
| | Totals | 25 | 25 | 12 | NS |

*Significance refers to the pattern of increases and decreases as determined by the sign test. S = significant pattern, NS = nonsignificant pattern.

TABLE 1.B.4

NUMBER AND SIGNIFICANCE* OF SUBTESTS ON WHICH
SCORE DIFFERENCES BETWEEN 1977 AND 1980 INCREASED AND
DECREASED BETWEEN WHITE STUDENTS AND BLACK STUDENTS

(For all tests at all grades, performance of white
students was above performance of black students.)

| Grade | Difference Decreased | Difference Increased | Difference Same | Significance |
|-------|-------------------------|-------------------------|--------------------|--------------|
| 3 | 12 | 1 | 1 | S |
| 5 | 13 | 0 | 1 | S |
| 7 | 14 | 0 | 0 | S |
| 9 | 14 | 0 | 0 | S |
| 11 | 6 | 0 | 0 | S |
| Total | 59 | 1 | 2 | S |

TABLE 1.B.5

NUMBER AND SIGNIFICANCE* OF SUBTESTS ON WHICH
SCORE DIFFERENCES BETWEEN 1977 AND 1980 INCREASED AND
DECREASED BETWEEN WHITE STUDENTS AND HISPANIC STUDENTS

(For all tests at all grades, performance of white
students was above performance of Hispanic students.)

| Grade | Difference Decreased | Difference Increased | Difference Same | Significance |
|--------|-------------------------|-------------------------|--------------------|--------------|
| 3 | 0 | 13 | 1 | S |
| 5 | 0 | 13 | 1 | S |
| 7 | 2 | 8 | 4 | NS |
| 9 | 10 | 1 | 3 | S |
| 11 | 3 | 3 | 0 | NS |
| Totals | 15 | 38 | 9 | S |

Significance refers to the pattern of increases and decreases as
determined by the sign test. S = significant pattern, NS = nonsignificant
pattern.

TABLE 1.B-6

NUMBER AND SIGNIFICANCE* OF SUBTESTS ON WHICH
SCORE DIFFERENCES BETWEEN 1977 AND 1980 INCREASED AND
DECREASED BETWEEN WHITE STUDENTS AND ASIAN STUDENTS

(White Students Scored Higher)

| Grade | No. of Subtests | Difference Decreased | Difference Increased | Difference Same | Significance |
|--------|-----------------|----------------------|----------------------|-----------------|--------------|
| 3 | 2 | 1 | 1 | 0 | ** |
| 5 | 3 | 0 | 3 | 0 | ** |
| 7 | 0 | 0 | 0 | 0 | ** |
| 9 | 0 | 0 | 0 | 0 | ** |
| 11 | 0 | 0 | 0 | 0 | ** |
| Totals | 5 | 1 | 4 | 0 | NS |

(Asian Students Scored Higher)

| Grade | No. of Subtests | Difference Decreased | Difference Increased | Difference Same | Significance |
|--------|-----------------|----------------------|----------------------|-----------------|--------------|
| 3 | 10 | 4 | 4 | 2 | NS |
| 5 | 9 | 9 | 0 | 0 | S |
| 7 | 10 | 10 | 0 | 0 | S |
| 9 | 11 | 8 | 2 | 1 | NS |
| 11 | 2 | 0 | 2 | 0 | NS |
| Totals | 42 | 31 | 8 | 3 | S |

*Significance refers to the pattern of increases and decreases as determined by the sign test. S = significant pattern, NS = nonsignificant pattern.

**There are too few cases to do a test of significance.

(On the remaining 15 subtests, neither the white students nor the Asian students scored higher in both years.)

Figure 1.B.1
Trends from 1977 to 1980
on ITBS Composite
for White Students

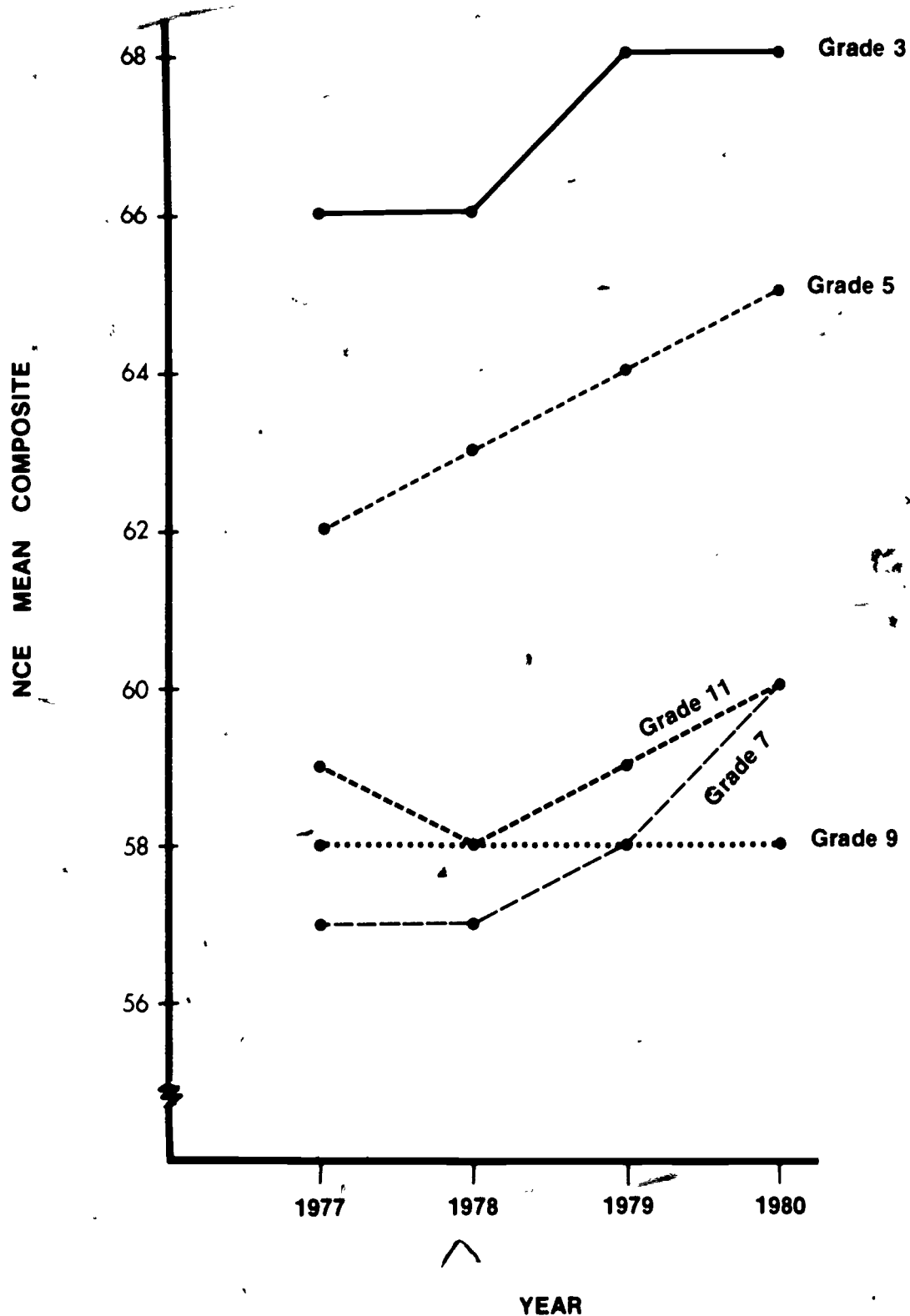


Figure 1.B.2
Trends from 1977 to 1980
on ITBS Composite
for Black Students

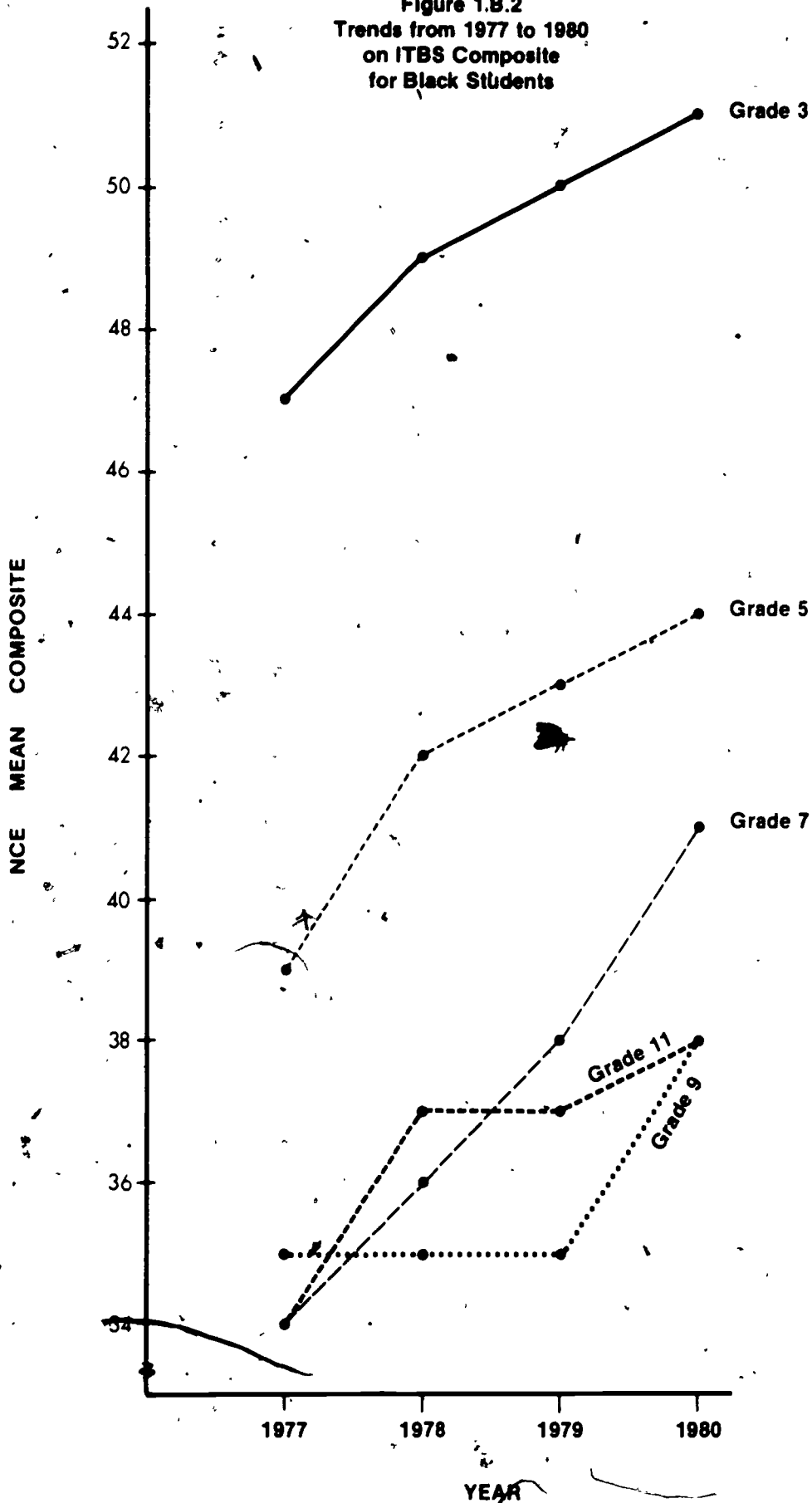


Figure 1.B.3
Trends from 1977 to 1980
on ITBS Composite
for Hispanic Students

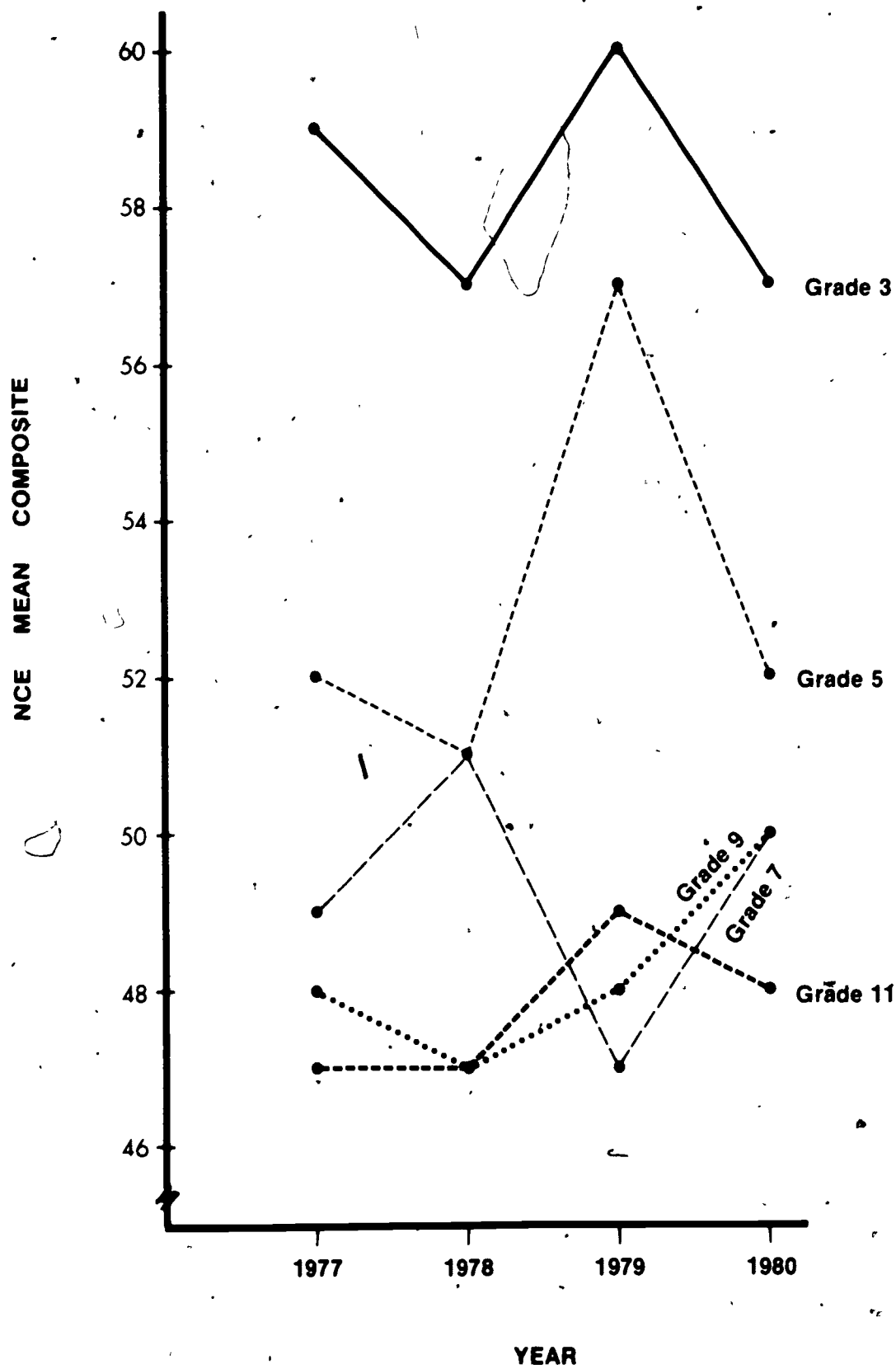
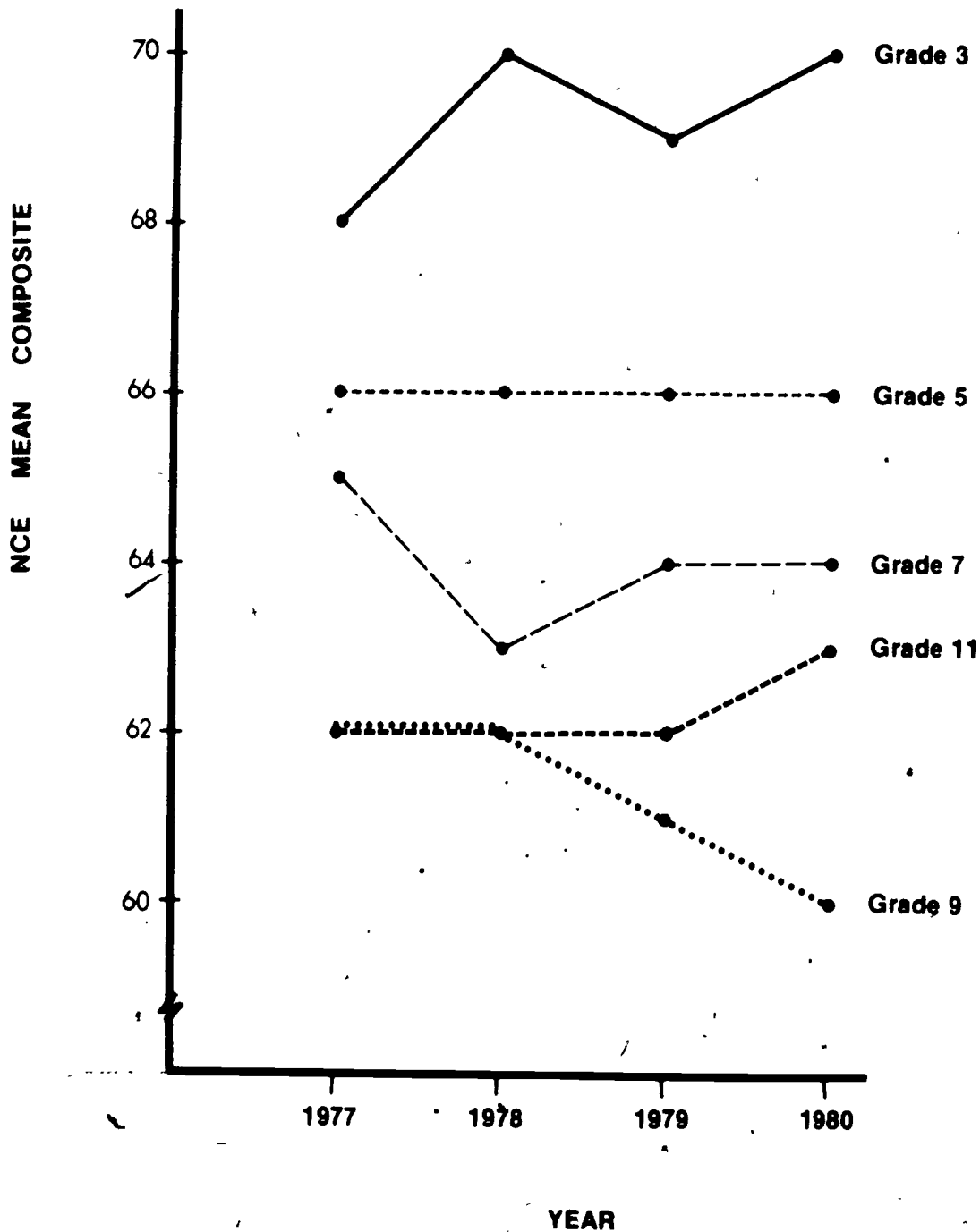


Figure 1.B.4
Trends from 1977 to 1980
on ITBS Composite
for Asian Students



1.C. ANALYSIS OF TEST RESULTS BY SEX

Introduction

As part of a continuing effort to monitor educational equity in MCPS, scores on the Iowa Tests of Basic Skills (ITBS), Tests of Academic Progress (TAP), and the Cognitive Abilities Test (CAT) have been analyzed by sex. Additional breakdowns of test results by sex are provided for the Maryland Functional Reading Test (MFRT) in Section 1.E, and College Board examinations in Section 1.F.

The analysis in this section will answer the following questions:

1. What were the patterns of scores for males and females from 1978 to 1980?
2. Were there differences in performance between males and females? Did these differences occur in specific subject areas?
3. Did the differences in the performance of males and females within racial/ethnic groups deviate from the differences between the males and females in the total population?

Data

The pattern of subtest increases and decreases from 1978 to 1980 for males and females is presented in Table 1.C.1. The trends of NCE mean Composite scores for males and females from 1978 to 1980 are illustrated in Figures 1.C.1 to 1.C.5. These data address Question 1.

The comparison of male and female test performance on each subtest in 1979 and 1980 is shown in Table 1.C.2. These data can be used to answer Question 2. They provide a way to determine if a group tended to score higher in certain subject areas across all grades. They also show if there was any change in the direction of group differences.

The comparison of male and female test performance on each subtest within racial/ethnic groups for 1979 and 1980 is presented in Tables 1.C.3 to 1.C.7. These data relate to Question 3.

Test results for males and for females who were tested in 1978, 1979, and 1980 are presented in Tables A11 to A14 in the Appendix. The results for males and females within racial/ethnic groups by grade for 1980 are presented in Tables A15 to A19. The tables show the mean normal curve equivalent (NCE) score and its percentile rank for all subtests.

Analysis

The data were examined from two perspectives. First, the pattern of subtest differences between groups was examined. Second, the magnitude of the overall differences between groups was assessed.

Pattern of Differences

The pattern of differences among subtests was reviewed to see if one group scored consistently higher or lower than another group in a variety of subject areas. When looking at the score difference between groups, only the direction is considered. If scores on a subtest increased from 1978 to 1980, it would count as one increase regardless of the magnitude of the difference. Table 1.Q.1 was developed by using the pattern of differences. The significance of the pattern was determined by using the sign test.¹

Magnitude

The size of the score differences between groups is not seen by reviewing the pattern of increases and decreases. To determine whether or not the difference is significant in size, a comparison of mean Composite scores was undertaken. Table 1.C.2 includes the size and direction of the difference between NCE Composite scores for 1979 and 1980 for each group. Increases or decreases of more than seven NCE points between the group Composite scores are considered significant.²

Both analyses are needed because they each address different concepts. It is possible to have a significant pattern of increases or decreases without the size of the differences being very large. This could mean that one group scored consistently higher on a significant number of tests, but the differences were small. It is also possible to have a significant size difference with no significant pattern of increases or decreases. This could indicate that one group's achievement level was higher but the lower group had some strong subject areas.

Results

Highlights

Analysis of test results by sex reveals the following:

- o The test scores for both males and females generally improved from 1978 to 1980.
- o On language subtests females scored higher in all cases from 1978 to 1980, with the exception of Reading in Grade 11 in 1979 and 1980.

¹The sign test is based on the assumption that differences will be evenly divided between increases and decreases. If the pattern is substantially different from this assumption, it is considered significant. Significance is defined as any pattern that would have less than a 5 percent probability of occurring by accident if the assumption of equal increases and decreases were true.

²Seven NCE points represent a change of one-third of a standard deviation. This standard is often used in educational evaluation to indicate meaningful change.

- o On math subtests males tended to score higher at the secondary level while results were mixed in Grades 3 and 5.
- o Females tended to score slightly higher than males on the Composite score in all grades except Grade 11. However, the differences were quite small; the largest difference was two NCE points in Grade 3.
- o The patterns highlighted above were generally true across all racial/ethnic groups. However, a major exception was noted in Grade 3 where Hispanic males scored higher than females on nine subtests. This was a deviation from the 1980 county trend, as well as from the 1979 trend for Hispanics. The Composite difference changed eight NCE points; that is, females were six points higher in 1979 and males were two points higher in 1980.
- o Almost all of the changes were modest in size.

Comparisons Within Each Group--1978 to 1980 (Question 1)

At all grade levels, subtest scores showed more increases than decreases from 1978 to 1980 for both males and females. The number of increases was significant for males at all grade levels, while the number of increases was significant for females in Grade 7 only. None of the changes in subtest scores were significant.

These same patterns were reflected generally in the mean Composite scores. These scores helped to emphasize that most changes were small. The best example of this was for Grade 9 males whose mean Composite did not change even though six of the 11 ITBS subtests showed increases. These were all one-point increases and were mostly in tests that have little weight in the computation of the Composite.

Male/Female Comparisons--1980 (Question 2)

Females scored higher than males on more than half of the subtests in Grades 3, 5, 7, and 9; however, the pattern in each grade was not significant. In Grade 11 males scored higher on three subtests and females scored higher on two subtests. The reason for this change from earlier grades is not at all clear. Two possible reasons for the change are differences in content on the TAP and ITBS and different levels of motivation for males and females as they move into senior high school. Males scoring higher in senior high school is consistent with results of the Scholastic Aptitude Tests (SAT) of the College Board (see Section 1.F.).

Analysis of 1980 scores on subtests grouped by subject area shows that, in general, females continued to score higher than males on language-related subtests; and males continued to score higher on mathematics, science, and social studies subtests. Females scored higher than males across all grade levels on the ITBS subtests included in the Language Total, namely, Spelling, Capitalization, Punctuation, and Language Usage. They also scored higher on the English Composition and Literature subtests in the TAP battery. Further, in Grades 3, 5, 7, and 9, females scored higher than males on Reading Comprehension. In Grade 11 the two groups were even in this area.

Males scored higher than females on all mathematics subtests in Grades 7, 9, and 11, and males scored higher on Science, and Social Studies in Grade 11. In Grade 3 females scored higher on the Mathematics Problem Solving subtest, and males scored higher on the Mathematics Concepts subtest. In Grade 5 both groups scored the same on the Mathematics Problem Solving subtest, and again males scored higher on Mathematics Concepts.

The analysis of the mean Composite NCE scores was consistent with the pattern of subtest differences. Females scored higher than males in Grades 3, 5, 7, and 9. The magnitude was less in 1980 than it was in 1979 in Grades 3 and 7, equal in Grade 5, and greater in Grade 9. In Grade 11 males scored one point higher than females. This was consistent with 1979 but a reversal of the 1978 trend. The largest difference in 1980 was two points in Grade 3, well below the seven-point standard of significance. The trends for these groups can be seen in Figures 1.C.1 to 1.C.5.

Exceptions to the County Pattern Within Racial/Ethnic Groups--1980 (Question 3)

The most noteworthy deviation from the county pattern among racial/ethnic groups was between Hispanic males and females in Grade 3. At this level Hispanic males scored higher on more than half of the subtests. This resulted in an eight-point NCE score difference change on the Composite for this grade. Males scored two points higher in 1980. Females had scored six points higher in 1979.

Two other noteworthy trend reversals were noted in the scores of Asian students. In Grade 5 females had a Composite mean four points higher than males in 1980. In 1979 the males had scored two points higher. In Grade 9 Asian males and females had the same Composite mean in 1980 after males had scored seven points higher in 1979. Both of these cases were consistent with the county trend in 1980 but had been inconsistent with it in 1979.

There were exceptions to the trend of females scoring higher than males on language-related subtests among racial/ethnic groups. White males scored higher on Vocabulary in Grades 5, 7, and 9. Hispanic males scored higher on Vocabulary in Grades 7 and 9 and on Reading Comprehension in Grade 9.

Several of the subtest score differences among the racial/ethnic groups were more than seven NCE points. This represents a substantial change. These subtests, by group and grade, are identified in Tables 1.C.3 to 1.C.7.

In 1980 the pattern of higher performance of females on a larger number of subtests countywide deviated among the racial/ethnic groups only to the extent that the pattern was significant for some of the these groups, while it was not significant in any grade countywide. The significant patterns were for white and Asian students in Grade 3; black, Asian, and Hispanic students in Grade 5; and black students in Grade 7.

TABLE 1.C.1

NUMBER AND DIRECTION OF SUBTEST SCORE CHANGES
FROM 1978 TO 1980 BY SEX AND GRADE

| | Females | | | Males | | |
|---------------------------|--------------------|-----------|-------|--------------------|-----------|-------|
| | Number of Subtests | | | Number of Subtests | | |
| | Higher | Unchanged | Lower | Higher | Unchanged | Lower |
| ITBS/CAT (14 Subtests) | | | | | | |
| Grade 3 | 9 | 3 | 2 | 12* | 2 | 0 |
| Grade 5 | 9 | 3 | 2 | 13* | 1 | 0 |
| Grade 7 | 14* | 0 | 0 | 14* | 0 | 0 |
| Grade 9 | 6 | 7 | 1 | 9* | 4 | 1 |
| TAP/CAT (6 Subtests) | | | | | | |
| Grade 11 | 2 | 3 | 1 | 6* | 0 | 0 |
| Total | 40* | 16 | 6 | 54* | 7 | 1 |

*Indicates that the number of increases is significant.

TABLE 1.C.2

**DIRECTION AND SIZE OF DIFFERENCES BETWEEN MALES AND FEMALES
IN EACH GRADE BY SUBTEST, 1979 AND 1980**

(Direction is indicated by M for male scoring higher,
F for female scoring higher. Size is indicated by the number
and this is reported in NCE points.)

| IOWA TESTS OF BASIC SKILLS | GRADE 3 | | GRADE 5 | | GRADE 7 | | GRADE 9 | |
|-------------------------------|---------|------|---------|------|---------|------|---------|------|
| | 1979* | 1980 | 1979 | 1980 | 1979 | 1980 | 1979 | 1980 |
| Composite | F3 | F2 | F1 | F1 | F3 | F1 | - | F1 |
| Vocabulary | F1 | F1 | - | - | F2 | - | M1 | - |
| Reading | F3 | F3 | - | F1 | F2 | F1 | F1 | F1 |
| Spelling | F5 | F5 | F6 | F6 | F8 | F6 | F7 | F7 |
| Capitalization | F5 | F5 | F4 | F4 | F7 | F5 | F5 | F6 |
| Punctuation | F6 | F6 | F6 | F7 | F7 | F7 | F5 | F6 |
| Language Usage | F5 | F3 | F5 | F4 | F7 | F7 | F6 | F6 |
| Map Reading | M1 | M2 | M3 | M2 | M3 | M2 | M5 | M5 |
| Graphs and Tables | F3 | F1 | M3 | M3 | - | - | M3 | M3 |
| Ref. Materials | F6 | F4 | F3 | F4 | F4 | F3 | F3 | F2 |
| Math Concepts | - | M1 | M2 | M2 | M1 | M2 | M3 | M2 |
| Math Prob. Solv. | F1 | F1 | - | - | M1 | M1 | M2 | M3 |
| COGNITIVE ABILITIES TEST | | | | | | | | |
| Verbal | F4 | F3 | F2 | F3 | F3 | F2 | F2 | F3 |
| Quantitative | F1 | M1 | M1 | M1 | F1 | - | M1 | M1 |
| Nonverbal | F1 | F1 | F1 | - | F2 | F1 | M1 | - |

| TESTS OF ACADEMIC PROGRESS | | GRADE 11 | |
|----------------------------|--|----------|------|
| | | 1979 | 1980 |
| Composite | | M1 | M1 |
| Social Studies | | M4 | M5 |
| Composition | | F7 | F8 |
| Science | | M5 | M6 |
| Reading | | - | - |
| Mathematics | | M5 | M4 |
| Literature | | F3 | F2 |

*Indicates that the number of differences is significant in favor of females.

TABLE 1.C.3

**DIRECTION AND SIZE OF DIFFERENCES BETWEEN MALES AND FEMALES
IN GRADE 3 BY SUBTEST WITHIN RACE, 1979 AND 1980**

(Direction is indicated by M for male scoring higher,
F for female scoring higher. Size is indicated by the number
and this is reported in NCE points.)

| IOWA TESTS OF BASIC SKILLS | White | | Black | | Asian | | Hispanic | | County | |
|---------------------------------|-------|-------|-------|------|-------|-------|----------|------|--------|------|
| | 1979* | 1980* | 1979* | 1980 | 1979* | 1980* | 1979* | 1980 | 1979* | 1980 |
| Composite | F3 | F3 | F3 | F2 | F2 | F2 | F6 | M2 | F3 | F2 |
| Vocabulary | F1 | F1 | M1 | - | F2 | F1 | F4 | - | F1 | F1 |
| Reading | F3 | F3 | F3 | F2 | F3 | F3 | F5 | M1 | F3 | F3 |
| Spelling | F5 | F6 | F6 | F6 | F2 | F5 | F5 | - | F5 | F5 |
| Capitalization | F5 | F5 | F6 | F4 | F2 | F4 | F6 | F3 | F5 | F5 |
| Punctuation | F6 | F5 | F6 | F6 | F3 | F6 | F8 | F1 | F6 | F6 |
| Language Usage | F5 | F5 | F5 | F3 | F4 | F4 | F7 | F2 | F5 | F3 |
| Map Reading | M2 | M2 | - | M2 | M2 | M2 | F3 | M5 | M1 | M2 |
| Graphs and Tables | F2 | F1 | F4 | F3 | F2 | F1 | F6 | M4 | F3 | F1 |
| Ref. Materials | F6 | F5 | F7 | F4 | F4 | F3 | F7 | M2 | F6 | F4 |
| Math Concepts | M1 | - | F1 | M1 | F1 | F1 | F3 | M5 | - | M1 |
| Math Prob. Solv. | F2 | F2 | F2 | - | - | F2 | F5 | M5 | F1 | F1 |
| COGNITIVE ABILITIES TEST | | | | | | | | | | |
| Verbal | F4 | F5 | F4 | F2 | F4 | F5 | F8 | M3 | F4 | F3 |
| Quantitative | - | - | F3 | - | M1 | - | F5 | M5 | F1 | M1 |
| Nonverbal | F2 | F2 | F3 | F3 | - | F2 | F9 | M5 | F1 | F1 |

*Indicates that the trend of higher subtests scores is significant in favor of females.

TABLE 1.C.4

DIRECTION AND SIZE OF DIFFERENCES BETWEEN MALES AND FEMALES
IN GRADE 5 BY SUBTEST WITHIN RACE, 1979 AND 1980

(Direction is indicated by M for male scoring higher,
F for female scoring higher. Size is indicated by the number
and this is reported in NCE points.)

| IOWA TESTS OF BASIC SKILLS | White | | Black | | Asian | | Hispanic | | County | |
|-------------------------------|-------|------|-------|-------|-------|-------|----------|-------|--------|------|
| | 1979 | 1980 | 1979* | 1980* | 1979 | 1980* | 1979 | 1980* | 1979 | 1980 |
| Composite | F1 | F1 | F4 | F3 | M2 | F4 | F3 | F3 | F1 | F1 |
| Vocabulary | M1 | M1 | F2 | - | M4 | F3 | F2 | F1 | M1 | - |
| Reading | F1 | F1 | F3 | F4 | M1 | F6 | F2 | F4 | - | F1 |
| Spelling | F6 | F6 | F9 | F7 | F3 | F6 | F4 | F8 | F6 | F6 |
| Capitalization | F5 | F4 | F4 | F5 | F1 | F5 | F4 | F4 | F4 | F4 |
| Punctuation | F6 | F6 | F8 | F8 | F5 | F7 | F6 | F5 | F6 | F6 |
| Language Usage | F5 | F4 | F6 | F4 | F3 | F8 | F8 | F4 | F5 | F5 |
| Map Reading | M3 | M3 | - | - | M5 | M2 | M1 | F3 | M3 | M3 |
| Graphs and Tables | M3 | M4 | M1 | M1 | M5 | F1 | M1 | M2 | M3 | M3 |
| Ref. Materials | F4 | F4 | F5 | F4 | F2 | F4 | F3 | F5 | F3 | F3 |
| Math Concepts | F2 | M3 | - | F1 | M3 | F2 | M1 | F1 | M2 | M2 |
| Math Prob. Solv. | - | - | F2 | - | M5 | F1 | - | M2 | - | - |
| COGNITIVE ABILITIES TEST | | | | | | | | | | |
| Verbal | F2 | F2 | F5 | F4 | M7 | F5 | F4 | F3 | F2 | F2 |
| Quantitative | M1 | M1 | M1 | - | M4 | - | M1 | F1 | M1 | M1 |
| Nonverbal | F1 | F1 | F1 | F2 | M3 | F2 | F2 | F4 | F1 | F1 |

*Indicates that the trend of higher subtests scores is significant in favor of females.

TABLE 1.G.5

**DIRECTION AND SIZE OF DIFFERENCES BETWEEN MALES AND FEMALES
IN GRADE 7 BY SUBTEST WITHIN RACE, 1979 AND 1980**

(Direction is indicated by M for male scoring higher,
F for female scoring higher. Size is indicated by the number
and this is reported in NCE points.)

| IOWA TEST OF BASIC SKILLS | White | | Black | | Asian | | Hispanic | | County | |
|------------------------------|-------|------|-------|-------|-------|------|----------|------|--------|------|
| | 1979 | 1980 | 1979* | 1980* | 1979 | 1980 | 1979 | 1980 | 1979 | 1980 |
| Composite | F2 | F1 | F3 | F2 | - | M1 | - | M1 | F3 | F1 |
| Vocabulary | - | M1 | F1 | - | M2 | - | M2 | M3 | - | - |
| Reading | F2 | F1 | F2 | F2 | M1 | F1 | M1 | - | F2 | F1 |
| Spelling | F7 | F6 | F9 | F7 | F6 | F5 | F2 | F4 | F8 | F5 |
| Capitalization | F7 | F6 | F9 | F7 | F3 | F2 | F5 | F4 | F7 | F5 |
| Punctuation | F8 | F7 | F5 | F6 | F8 | F4 | - | F5 | F7 | F7 |
| Language Usage | F7 | F6 | F7 | F4 | F7 | F6 | F4 | F4 | F7 | F7 |
| Map Reading | M3 | M2 | M2 | M2 | M6 | M5 | M8 | M5 | M3 | M2 |
| Graphs and Tables | - | - | - | - | M2 | M3 | M1 | M3 | - | - |
| Ref. Materials | F5 | F4 | F6 | F5 | F1 | - | F2 | - | F4 | F3 |
| Math Concepts | M1 | M2 | F1 | - | M4 | M4 | M2 | M2 | M1 | M2 |
| Math Prob. Solv. | M1 | M2 | F1 | F2 | M3 | M2 | M2 | M2 | M1 | M1 |
| COGNITIVE ABILITIES TEST | | | | | | | | | | |
| Verbal | F3 | F3 | F4 | F1 | - | M1 | M2 | M1 | F3 | F2 |
| Quantitative | F1 | - | F1 | F2 | M3 | M3 | M2 | M1 | F1 | - |
| Nonverbal | F1 | F2 | F3 | - | M2 | F1 | F2 | F2 | F2 | F1 |

*Indicates that the trend of higher subtests scores is significant in favor of females.

TABLE 1.C.6

**DIRECTION AND SIZE OF DIFFERENCES BETWEEN MALES AND FEMALES
IN GRADE 9 BY SUBTEST WITHIN RACE, 1979 AND 1980**

(Direction is indicated by M for male scoring higher,
F for female scoring higher. Size is indicated by the number
and this is reported in NCE points.)

| IOWA TESTS OF BASIC SKILLS | White | | Black | | Asian | | Hispanic | | County | |
|-------------------------------------|-------|------|-------|------|-------|------|----------|------|--------|------|
| | 1979 | 1980 | 1979 | 1980 | 1979* | 1980 | 1979 | 1980 | 1979 | 1980 |
| Composite | F1 | - | F2 | F3 | M7 | - | M3 | - | - | F1 |
| Vocabulary | - | M1 | - | | M7 | F1 | M1 | M1 | M1 | - |
| Reading | F1 | F1 | F1 | F2 | M6 | - | M1 | M3 | F1 | F1 |
| Spelling | F7 | F7 | F8 | F9 | F2 | F5 | F3 | F5 | F7 | F7 |
| Capitalization | F6 | F6 | F5 | F7 | M1 | F4 | F3 | F4 | F5 | F6 |
| Punctuation | F6 | F6 | F5 | F5 | M2 | F5 | F2 | F5 | F5 | F6 |
| Language Usage | F5 | F6 | F5 | F6 | - | F6 | F4 | F4 | F6 | F6 |
| Map Reading | M4 | M6 | M5 | M3 | M12 | M4 | M9 | M6 | M5 | M5 |
| Graphs and Tables | M3 | M3 | - | - | M9 | M4 | M3 | M3 | M3 | M3 |
| Ref. Materials | F3 | F2 | F4 | F5 | M4 | F1 | F1 | - | F3 | F2 |
| Math Concepts | M2 | M3 | M1 | - | M7 | M4 | M3 | M2 | M3 | M2 |
| Math Prob. Solv. | M2 | M3 | - | M1 | M7 | M6 | M5 | M1 | M2 | M3* |
| COGNITIVE ABILITIES TEST | | | | | | | | | | |
| Verbal | F3 | F3 | F3 | F4 | M7 | F4 | - | F1 | F2 | F3 |
| Quantitative | - | M1 | - | F1 | M9 | M2 | M5 | - | M1 | M1 |
| Nonverbal | - | - | M1 | - | M7 | - | M4 | M1 | M1 | - |

*Indicates that the trend of higher subtest scores is significant in favor of males.

TABLE 1.C.7

DIRECTION AND SIZE OF DIFFERENCES BETWEEN MALES AND FEMALES
IN GRADE 11 BY SUBTEST WITHIN RACE, 1979 AND 1980

(Direction is indicated by M for male scoring higher,
F for female scoring higher. Size is indicated by the number
and this is reported in NCE points.)

| TESTS OF ACADEMIC PROGRESS | White | | Black | | Asian | | Hispanic | | County | |
|-------------------------------|-------|------|-------|------|-------|------|----------|------|--------|------|
| | 1979 | 1980 | 1979 | 1980 | 1979 | 1980 | 1979 | 1980 | 1979 | 1980 |
| Composite | M1 | M1 | F4 | F1 | M8 | M2 | F5 | - | M1 | M1 |
| Social Studies | M4 | M5 | F2 | M1 | M9 | M6 | M1 | M4 | M4 | M5 |
| English | F8 | F8 | F9 | F8 | F1 | F4 | F9 | F5 | F7 | F8 |
| Science | M5 | M5 | F3 | M3 | M12 | M6 | M1 | M4 | M5 | M6 |
| Reading | - | - | F3 | F1 | M5 | M2 | F1 | - | - | - |
| Mathematics | M4 | M4 | M1 | - | M11 | M1 | - | M2 | M5 | M4 |
| Literature | F3 | F2 | F5 | F5 | M1 | - | F6 | F3 | F3 | F2 |

Figure 1.C.1
Trends from 1978 to 1980
for Males and Females
Grade 3

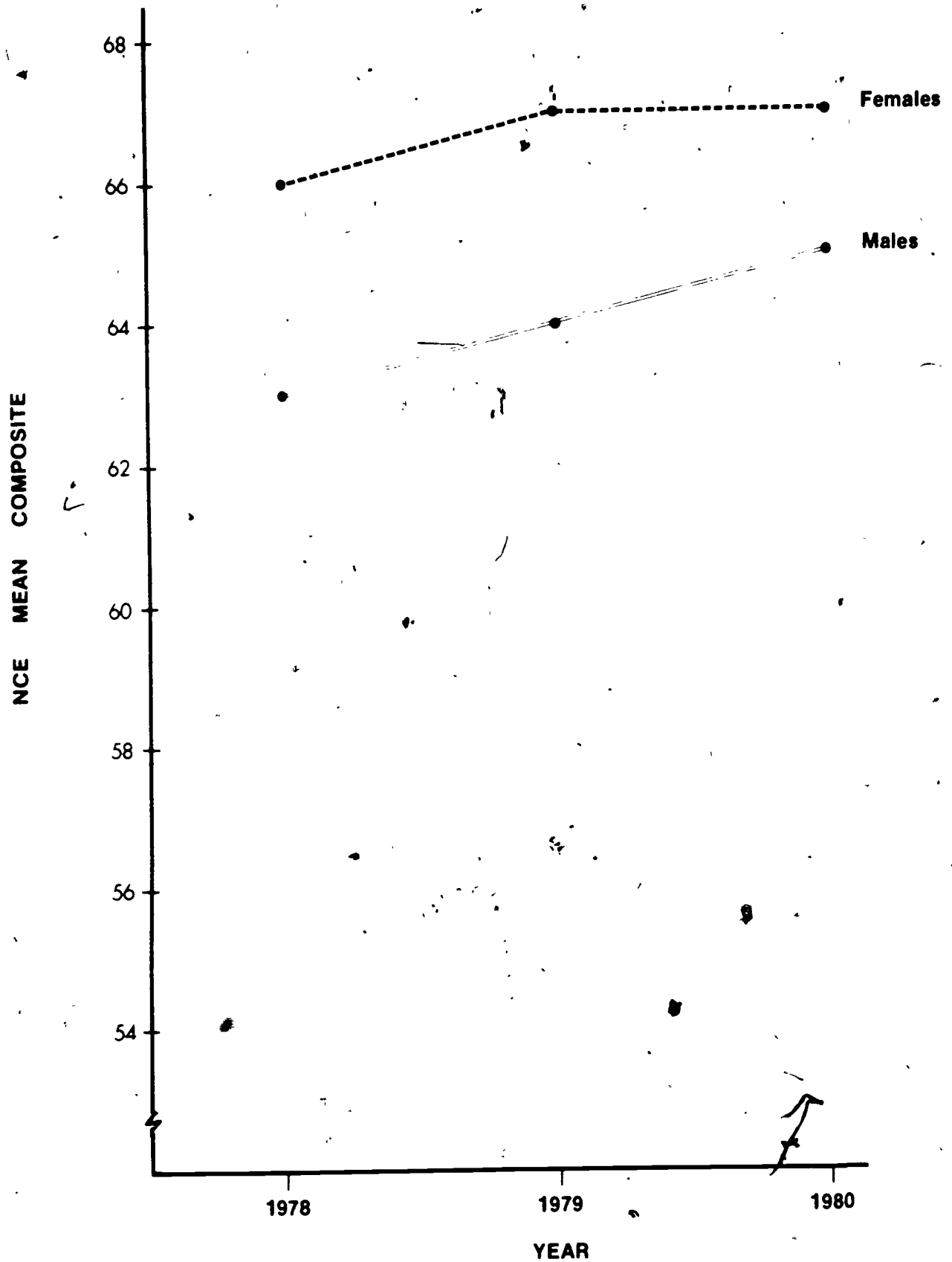


Figure 1.C.2
Trends from 1978 to 1980
for Males and Females
Grade 5

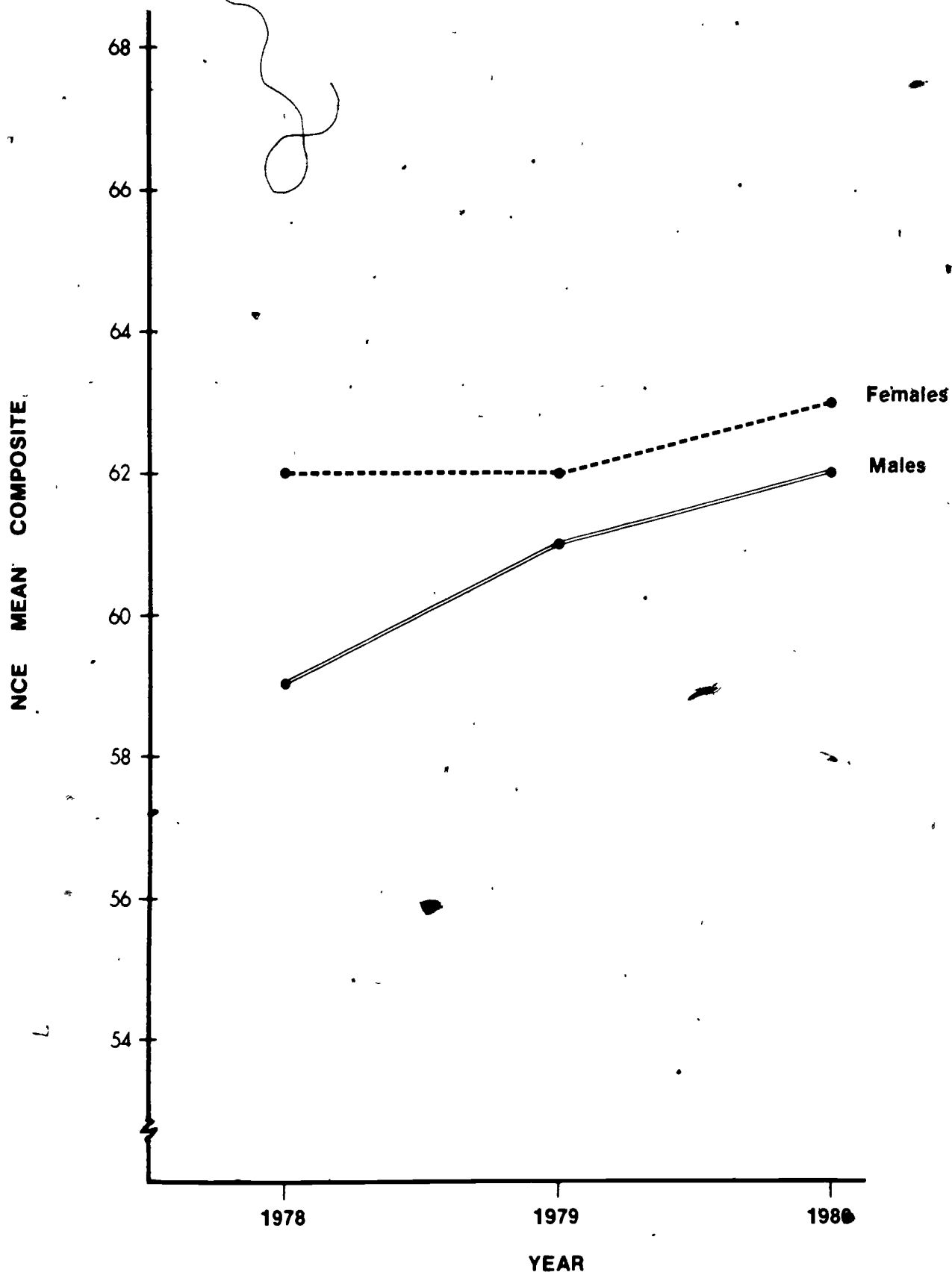


Figure 1.C.3
Trends from 1978 to 1980
for Males and Females
Grade 7

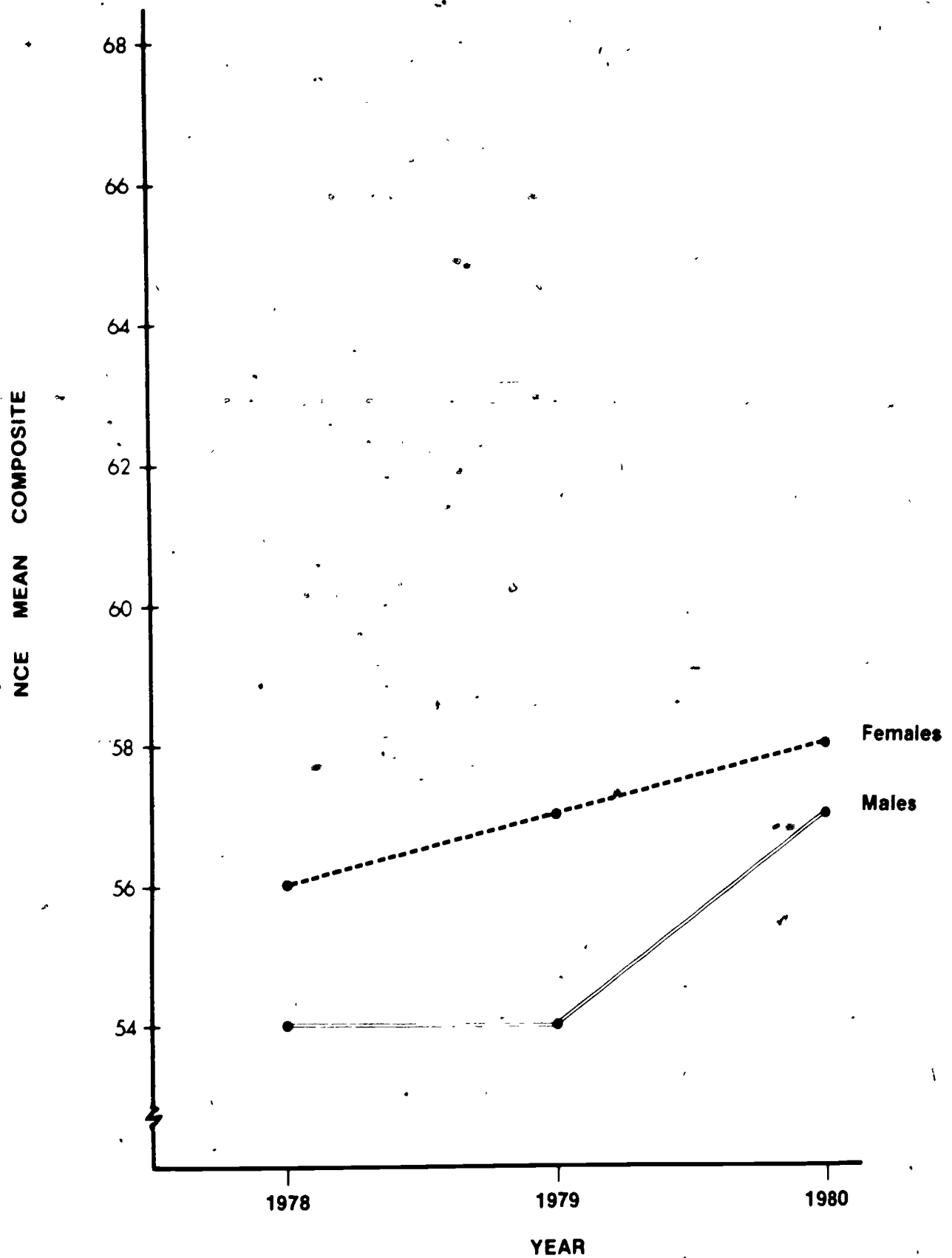


Figure 1.C.4
Trends from 1978 to 1980
for Males and Females
Grade 9

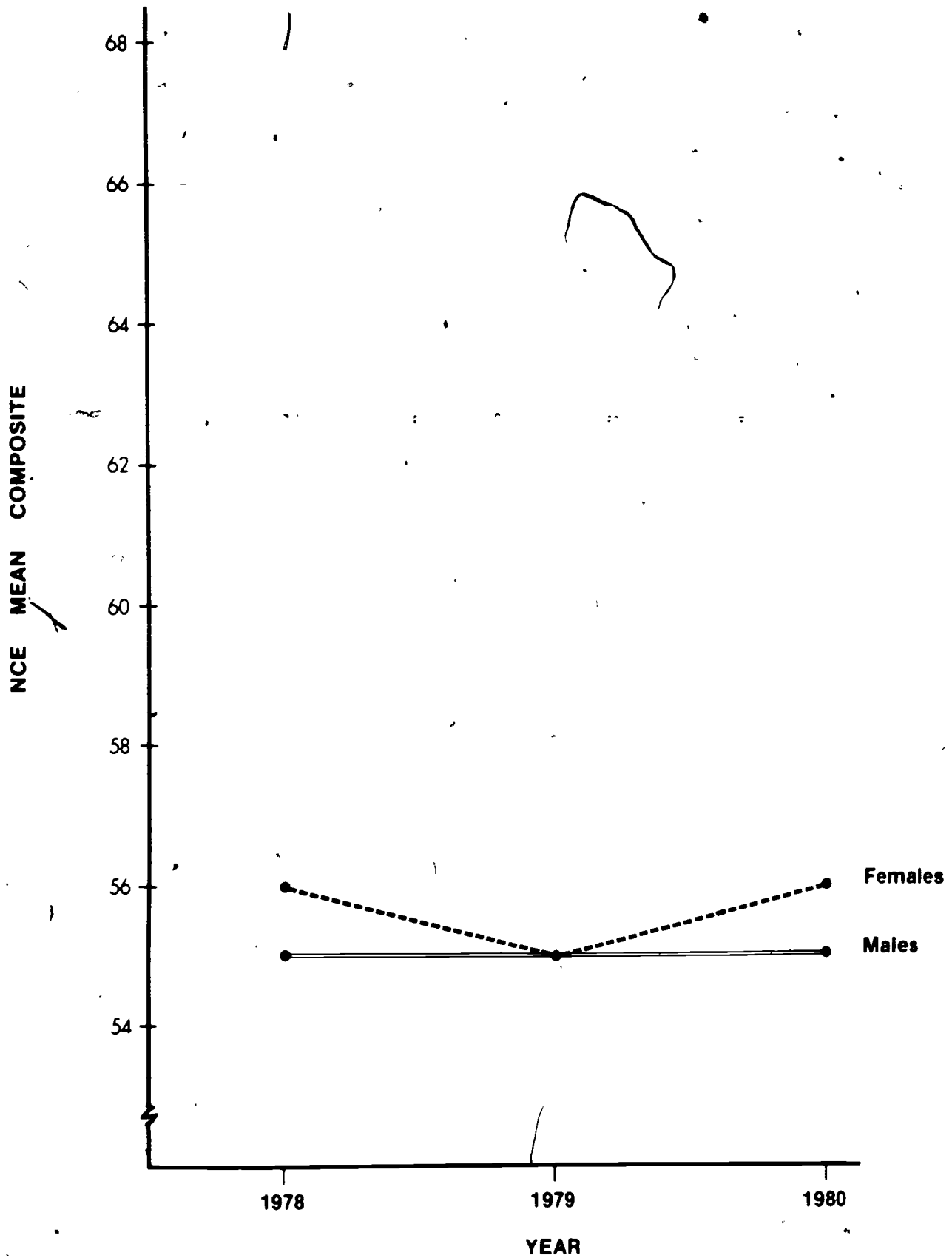
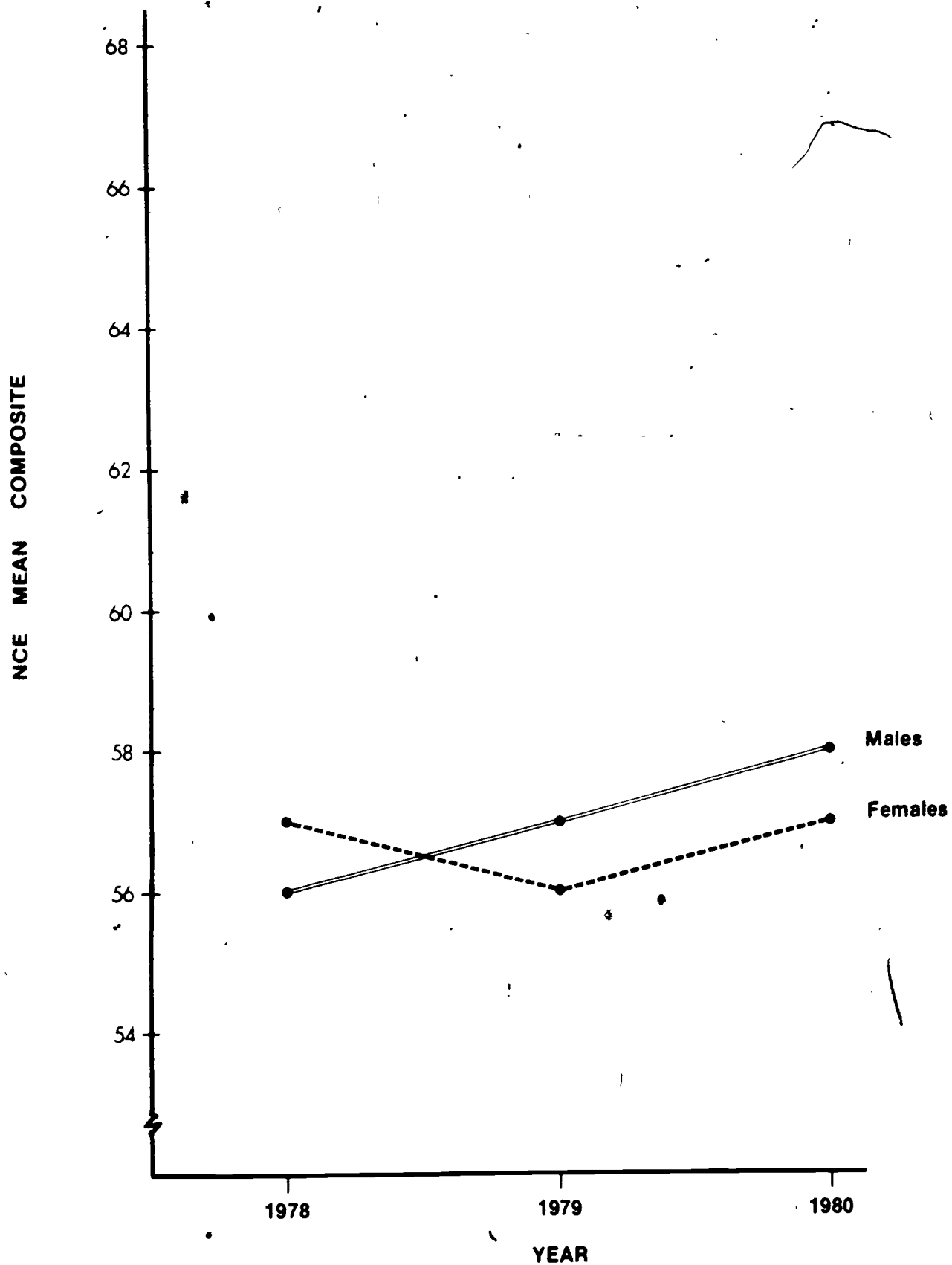


Figure 1.C.5
Trends from 1978 to 1980
Males and Females
Grade 11



1.D. LONGITUDINAL ANALYSIS OF RESULTS FOR
STUDENTS TESTED IN 1976, 1978, AND/OR 1980

Introduction

In recent years the average test score of MCPS students has declined relative to the national norm¹ from Grade 3 to Grade 7. The data presented in Section 1.A show that this trend occurred again in 1980. This decline has caused much concern and discussion. Several explanations for this trend can be hypothesized. These include possible sampling error in the norms for each grade, differential degree of match between the MCPS curriculum and the content of the ITBS in different grades, different testing dates for elementary and secondary grades, or simply declining achievement. The hypothesis dealing with different testing dates was investigated in the 1978-79 Annual Test Report. The different dates were found to account for part of the score decline indicated above. Comprehensive research studies would be needed to investigate fully the other hypotheses. This cannot be done with the available data.

Still another hypothesis that can be presented as a reason for the score decline is change in the population from grade to grade. The analyses presented in this section attempt to deal with that hypothesis. This is done by looking at the effect on the score decline of groups of students who have attended MCPS schools for varying amounts of time. This should show if the decline can be attributed to groups transferring into and out of MCPS; to groups remaining in MCPS for several years; to groups transferring within MCPS; or to some combination of these groups.

The specific questions to be addressed in this section are:

1. Did students who remained in MCPS score higher or lower than students who transferred into or out of MCPS?
2. Was the countywide test score decline from Grade 3 to Grade 7 caused by the score trend for students who remained in MCPS or by differences in performance between those students who transferred into or out of MCPS?
3. Was the score difference between students transferring into and out of MCPS large enough to indicate a meaningful change in the level of achievement in MCPS?
4. How did the test scores of students who remained in the same school compare to the scores of students who transferred from one MCPS school to another?

Data

Test results are presented and compared for two categories of students: longitudinal (L) and nonlongitudinal (NL). Students in the first category are

¹The national norm was established in 1970.

those tested in MCPS in two or three consecutive test administrations in 1976, 1978, and 1980. Students in the nonlongitudinal category were tested in MCPS in only one of these years. The groups within each category are listed below in Table 1.D.1. The table shows the grade in which the group was tested each year.

TABLE 1.D.1
GRADES TESTED, BY YEAR, FOR LONGITUDINAL (L)
AND NONLONGITUDINAL (NL) GROUPS

| Group | Year Tested | | |
|-------|-------------|------|------|
| | 1976 | 1978 | 1980 |
| L1 | | 3 | 5 |
| L2 | 3 | 5 | 7 |
| L3 | 3 | 5 | |
| L4 | | 5 | 7 |
| L5 | 5 | 7 | 9 |
| L6 | 5 | 7 | |
| L7 | | 7 | 9 |
| NL1a | | 3 | |
| NL1b | | | 5 |
| NL2 | 3 | | |
| NL3 | | 5 | |
| NL4 | | | 7 |
| NL5 | 5 | | |
| NL6 | | 7 | |
| NL7 | | | 9 |

The mean Composite scores for each longitudinal and nonlongitudinal group are listed in Tables 1.D.2 to 1.D.4. These data are presented for the county and for each major racial/ethnic group in MCPS. The first three questions are answered using these data.

The county results from Table 1.D.2 to 1.D.4 are presented in graphic form in Figures 1.D.1 to 1.D.3. This provides an easy way to compare the trends of the various groups.

Two of the longitudinal groups (those with fifth or ninth grade students in 1980) have been further broken down to compare the performance of students tested in the same school twice to the performance of students transferring between MCPS schools. The mean Composite scores for these two groups are reported in Table 1.D.5.

The detailed data relating to this section are presented in Tables A20 to A39 in the Appendix. The longitudinal groups are organized by their 1980 grade. All of the nonlongitudinal groups are reported in one table. The results are reported for the total county and for each major racial/ethnic group in MCPS. Mean normal curve equivalent (NCE) scores are reported with their percentile ranks.

Analysis

The answers to all four questions were obtained by looking at the differences in mean Composite scores between the relevant longitudinal and nonlongitudinal groups. In these comparisons, differences of more than seven NCE points were considered significant.²

Results

Highlights

The summary of the results of the longitudinal analysis for students tested in 1976, 1978, and/or 1980 follows.

- o Students who remained in MCPS tended to score higher on the Iowa Tests of Basic Skills than students who transferred into or out of the MCPS. However, in only 4 of 24 comparisons was the difference significant. In one case the group transferring out of MCPS scored one point higher than the group remaining.
- o The overall county test score declines from Grade 3 to 5 and from Grade 5 to 7 were generally reflected by both longitudinal (L) and nonlongitudinal (NL) groups between 1976 and 1978. L groups declined two to three NCE points, while the score differences between NL groups were six to ten points. However, from 1978 to 1980 only the longitudinal groups in these grades had a score decline. Again the L groups had declines of two to three points. This time the students transferring into MCPS scored the same as those who had transferred out after one testing. Thus, between the last two years the students entering MCPS actually reduced the score decline slightly.
- o For Asian and Hispanic students, there were generally significant differences in mean scores between students entering MCPS and those leaving. In most cases the entering groups had lower scores than the exiting groups. The longitudinal groups for Asian and Hispanic students showed little change during this time.
- o Students who remained in the same school across two test periods scored higher than those who transferred between MCPS schools. The difference was significant only at the elementary level.
- o Students who remained in the same school and students who transferred between MCPS schools showed similar declines in test scores.

²This represents a change of more than one-third of a standard deviation, a standard often used in educational evaluation to indicate meaningful change.

Test Performance and Time in MCPS (Question 1)

Students tested in MCPS at least three times (i.e., Grades 3, 5, and 7 or 5, 7, and 9) had higher mean Composite scores than students tested in the same grades who were in MCPS for only one or two testings. In 4 of 14 comparisons the scores for the group remaining in MCPS across a four-year period were significantly higher than the scores for the other groups. Students in MCPS for two test administrations generally had mean Composite scores higher than the scores for students tested only once in MCPS. None of these differences were significant. The only exception to this trend was in Grade 5 in 1976 where the group tested once scored one NCE point higher than the group that stayed in MCPS to be tested twice.

The fact that time in MCPS and the size of test scores were related is not a definite indication of school system quality. Such a cause and effect relationship is difficult to establish. There are several possible reasons for this relationship. Certainly it is possible that the MCPS instructional program is of higher quality than those programs which students are exposed to in other school districts. Additionally, when students are in the same school or school system for several years, the problems they have will most likely be identified and remedied, thus, improving achievement. If the student changes schools often such an identification is less likely. However, the score patterns could have little relationship to what takes place in the schools. They could be the result of certain characteristics of groups of students who tend to stay in the same area for several years. These characteristics could be effected by such nonschool-related factors as the employment history of parents, effects of moves upon children, etc.

Effect of Longitudinal and Nonlongitudinal Group Score Trends on County Trends (Question 2)

From 1976 to 1978 all groups being studied in this section -- three-year longitudinal, two-year longitudinal, and nonlongitudinal -- contributed to the decline in test scores between Grades 3 and 7. The one trend in that period that was significant was a ten-NCE-point difference between the NL groups in Grades 5 (1976) and 7 (1978). This was considerably larger than the two- to three-point declines for both longitudinal groups between these grades.

In contrast, the score declines from 1978 to 1980 were influenced only by the groups that were in MCPS longer. The longitudinal groups in Grades 5 and 7 (1980) showed a two- to three-point decline from two years earlier. The nonlongitudinal groups in each grade scored the same. Thus, the small countywide score declines from 1978 to 1980 between Grades 3 and 5 and Grades 5 and 7 were caused completely by the longitudinal groups.

Score Trends Between Groups Transferring Into and Out of MCPS (Question 3)

The only indication of a possible countywide population change in achievement level was found from Grade 5 to 7 between 1976 and 1978. Here a decline of ten NCE points was noted. While this decline between nonlongitudinal groups was significant in magnitude, it did not signal a major impact on the level of achievement in MCPS because the 370 students in the Grade 7 group were only 6 percent of the total number tested. Thus, their entry into that class did not create much of a change in the average test performance of the total class.

The scores for the nonlongitudinal groups of Asian and Hispanic students showed considerable differences from one test administration to the next. The largest difference was an 18-NCE-point decline for Asian students from Grade 5 (1976) to Grade 7 (1978). Several other declines for both groups were beyond the seven-point standard of significance. One possible reason for the large score fluctuations could have been the small size of these groups. However, the significant score declines could also have resulted from a lack of fluency with English for the entering students. Many of the students in the entering groups are new to the United States. Their lack of familiarity with English could make high performance on this test difficult.³

Effect of Students Transferring Between MCPS Schools (Question 4)

Students who remained in the same school for two test administrations (i.e., at least two years) scored higher than those who transferred between MCPS schools. The difference between these groups was significant only at the elementary level (eight points in both Grades 3 and 5).

When the scores of students transferring between MCPS elementary schools were compared to those of students entering or leaving MCPS, little difference was found. However, at the secondary level a sizeable difference was found. In Grade 7 in 1978 the group transferring within MCPS scored nine points higher. In 1980, this difference was six points.

Finally, an analysis of test scores of students remaining in the same school and those transferring within MCPS indicated that both groups had a two-point decline in scores between Grades 3 and 5. At the secondary level the comparison between these groups led to a similar conclusion as scores between Grades 7 and 9 remained the same for students tested in the same school and increased by one point for students tested in different MCPS schools.

TABLE 1.D.2

MEAN COMPOSITE SCORES FOR LONGITUDINAL AND NONLONGITUDINAL GROUPS,
1980 GRADE 5

| Group | 1978 (Grade 3) | | 1980 (Grade 5) | |
|----------|----------------|-----------------|----------------|-----------------|
| | Longitudinal | Nonlongitudinal | Longitudinal | Nonlongitudinal |
| County | 66 | 58 | 63 | 58 |
| Asian | 70 | 67 | 70 | 59 |
| Black | 50 | 45 | 46 | 40 |
| Hispanic | 58 | 55 | 56 | 44 |
| White | 68 | 60 | 65 | 63 |

³It should be noted that students identified as not being able to take a standardized test written in English are excused from taking the tests. This means that the mean scores for groups of Asian and Hispanic students probably indicated a higher level of achievement than would be the case if all students in these groups were tested. This was true for the few cases where the NL mean scores went up for these groups as well as the majority of cases where the mean scores went down.

TABLE 1.D.3

MEAN COMPOSITE SCORES FOR LONGITUDINAL AND NONLONGITUDINAL GROUPS,
1980 GRADE 7

| Group | Grade Tested | 1976 (Grade 3) | | 1978 (Grade 5) | | 1980 (Grade 7) | |
|----------|--------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | | Longitudinal | Nonlongitudinal | Longitudinal | Nonlongitudinal | Longitudinal | Nonlongitudinal |
| County | 3-5-7 | 64 | 58 | 52 | 52 | 59 | 52 |
| | 3-5 | 60 | 58 | 58 | 52 | | |
| | 5-7 | | | 59 | 52 | 57 | 52 |
| Asian | 3-5-7 | 68 | 65 | 69 | 53 | 68 | 57 |
| | 3-5 | 72 | 65 | 74 | 53 | | |
| | 5-7 | | | 58 | 53 | 60 | 57 |
| Black | 3-5-7 | 47 | 37 | 45 | 32 | 43 | 38 |
| | 3-5 | 43 | 37 | 40 | 32 | | |
| | 5-7 | | | 41 | 32 | 40 | 38 |
| Hispanic | 3-5-7 | 55 | 48 | 55 | 40 | 54 | 46 |
| | 3-5 | 55 | 48 | 52 | 40 | | |
| | 5-7 | | | 45 | 40 | 47 | 46 |
| White | 3-5-7 | 65 | 61 | 64 | 57 | 61 | 56 |
| | 3-5 | 61 | 61 | 60 | 57 | | |
| | 5-7 | | | 63 | 57 | 60 | 56 |

TABLE 1.D.4

MEAN COMPOSITE SCORES FOR LONGITUDINAL AND NONLONGITUDINAL GROUPS,
1980 GRADE 9

| Group | Grade Tested | 1976 (Grade 5) | | 1978 (Grade 7) | | 1980 (Grade 9) | |
|----------|--------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | | Longitudinal | Nonlongitudinal | Longitudinal | Nonlongitudinal | Longitudinal | Nonlongitudinal |
| County | 5-7-9 | 60 | 56 | 58 | 46 | 58 | 50 |
| | 5-7 | 55 | 56 | 52 | 46 | | |
| | 7-9 | | | 53 | 46 | 55 | 50 |
| Asian | 5-7-9 | 67 | 65 | 66 | 47 | 67 | 47 |
| | 5-7 | 62 | 65 | 62 | 47 | | |
| | 7-9 | | | 57 | 47 | 59 | 47 |
| Black | 5-7-9 | 40 | 38 | 39 | 27 | 40 | 32 |
| | 5-7 | 37 | 38 | 35 | 27 | | |
| | 7-9 | | | 25 | 27 | 39 | 32 |
| Hispanic | 5-7-9 | 54 | 49 | 53 | 54 | 55 | 45 |
| | 5-7 | 50 | 49 | 51 | 54 | | |
| | 7-9 | | | 46 | 54 | 48 | 45 |
| White | 5-7-9 | 62 | 57 | 59 | 49 | 59 | 54 |
| | 5-7 | 57 | 57 | 54 | 49 | | |
| | 7-9 | | | 57 | 49 | 58 | 54 |

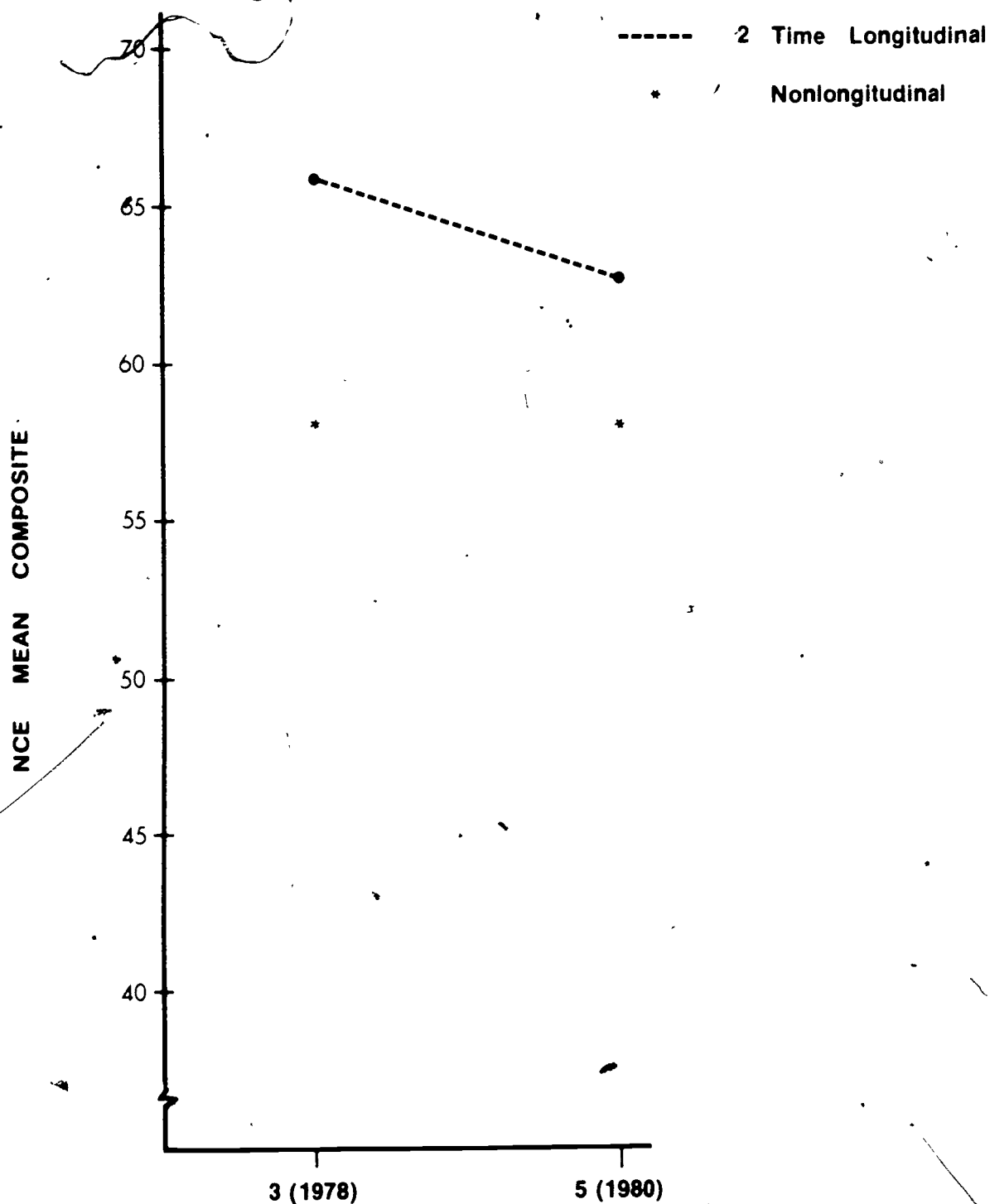
TABE 1.D.5

TEST RESULTS FOR LONGITUDINAL GROUP STUDENTS TESTED IN THE SAME AND
DIFFERENT MCPS SCHOOLS, 1978 AND 1980

(Mean scores are for the Composite and are computed using NCE scores.)

| Grade | Year | Students Tested in Same School Both Years | Students Tested in Different MCPS School Each Year | All Students Tested in MCPS Both Years |
|-------|------|--|--|---|
| | | Number Mean | Number Mean | Number Mean |
| 3 | 1978 | 4918 67 | 1151 59 | 6069 66 |
| 5 | 1980 | 4918 65 | 1151 57 | 6069 63 |
| 7 | 1978 | 3938 58 | 2186 55 | 6124 57 |
| 9 | 1980 | 3938 58 | 2186 56 | 6124 57 |

Figure 1.D.1
Trends for Longitudinal and
Nonlongitudinal Groups for
the 1980 Grade 5 Class



GRADE (YEAR)

Figure 1.D.2
Trends for Longitudinal and
Nonlongitudinal Groups for
the 1980 Grade 7 Class

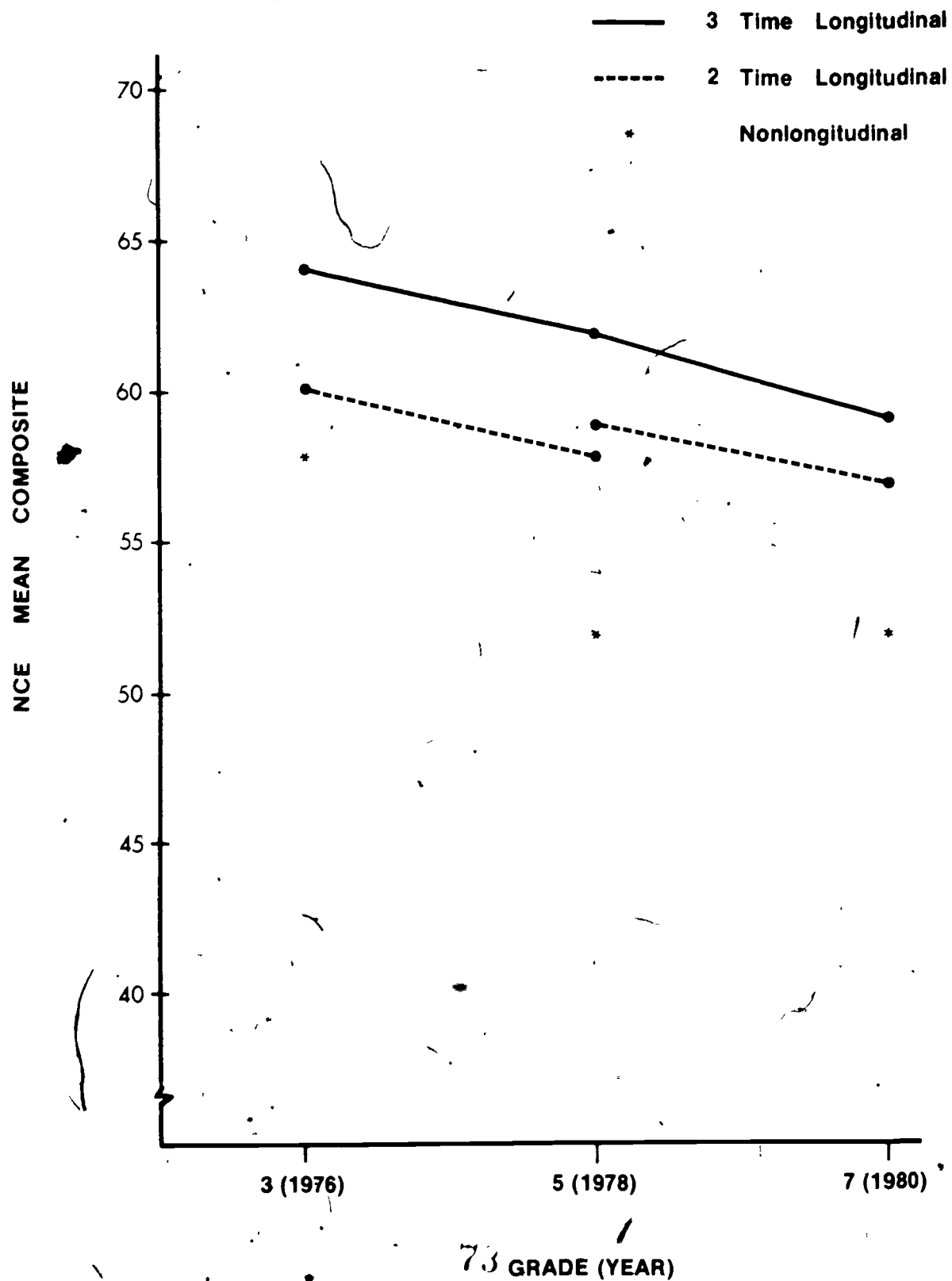
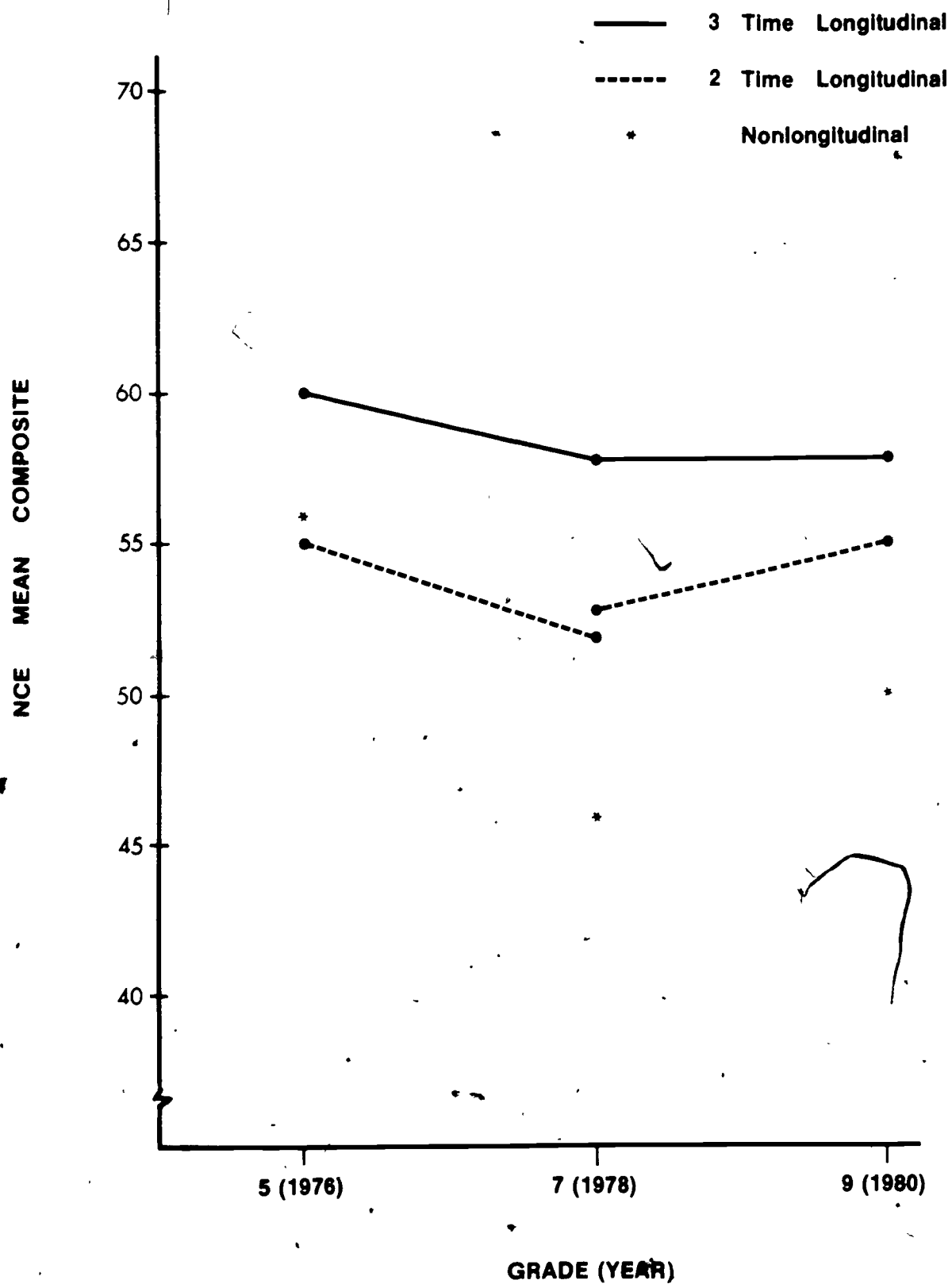


Figure 1.D.3
Trends for Longitudinal and
Nonlongitudinal Groups for
the 1980 Grade 9 Class



1.E. REPORT ON STUDENTS ACHIEVING COMPETENCY ON THE
MARYLAND FUNCTIONAL READING TEST, COUNTYWIDE AND
BY SEX AND RACIAL/ETHNIC CATEGORY

Introduction

The Maryland Functional Reading Test (MFRT) is part of the Maryland State minimum competency testing program. The results provide a measure of how well students have attained the minimal literacy skills determined by the Maryland State Department of Education (MSDE) necessary for a high school diploma. Starting with the graduating class of 1982, the MFRT will be a high school graduation requirement. To pass this test a student must answer correctly at least 80 percent of the questions. The analyses of test performance presented here address the following questions:

1. What were the countywide score trends?
2. Were there performance differences by racial/ethnic category?
3. Were there differences in performance by sex?

Data

Table 1.E.1 reports the percentage of students achieving the 80 percent competency score for each category of the MFRT and for the total test. These data are reported for Grade 7 and are broken out by racial/ethnic groups and by sex. Results from the Grade 9 administration of the MFRT are not reported because the test that was mandated by MSDE was later declared invalid by MSDE.

Analysis

No formal statistical analyses have been done. The data are descriptive.

Results

Highlights

An analysis of the data from the October, 1979, administration of the Maryland Functional Reading Test in Grade 7 has produced the following results:

- o Countywide; 90 percent of the Grade 7 students tested passed the MFRT. This was the same as the previous year.
- o A breakdown of the data by racial/ethnic groups shows that the percentage passing increased in each minority group. Hispanic students had a passing rate of 87 percent, a 6 percent increase from 1978. Asian and black students had passing rates of 94 and 74

percent, respectively. This was an increase of 3 percent in each case. Ninety-two percent of the white students tested passed, the same as in 1978.

- o Females again outperformed males 93 to 87 percent, the same as last year.
- o There was an increase for every group on the category "Understanding Forms" from 1978 to 1979. The increase for Asian and white students was 5 percent; the increase was 15 percent for both black and Hispanic students.

County Data (Question 1)

The percentage of MCPS students in Grade 7 who passed the total test remained the same as it was the previous year (90 percent). Student performance increased on Understanding Forms, remained the same on Gaining Information, and decreased on Locating Information and Following Directions.

Results by Racial/Ethnic Group (Question 2)

In 1979 Asian students scored higher than all other groups on the total test and every category. This was a reversal from the previous year when the white students had the highest scores. However, the difference between Asian and white students in percentage passing was only 2 percent on the total test and ranged from 1 to 4 percent on the objective categories.

In 1979 the percentage of white students passing the MFRT remained the same on the total test as in 1978. There was an increase of 5 percent on one category and a decrease of from 1 to 4 percent on three categories.

Black students increased their scores in the past year on the total test and in three of the four categories. White students scored higher than black students with 18 percent more white students passing the test. This was a decline from the 21 percent difference the year before.

Hispanic students increased or remained the same in 1979 on the total test and all categories. The differences between their scores and those of white students decreased from 1978 to 1979, even though the white students were still higher in every case. Five percent more white students passed the test than did Hispanics. This was a decline from the 11 percent difference the year before.

Results by Sex (Question 3)

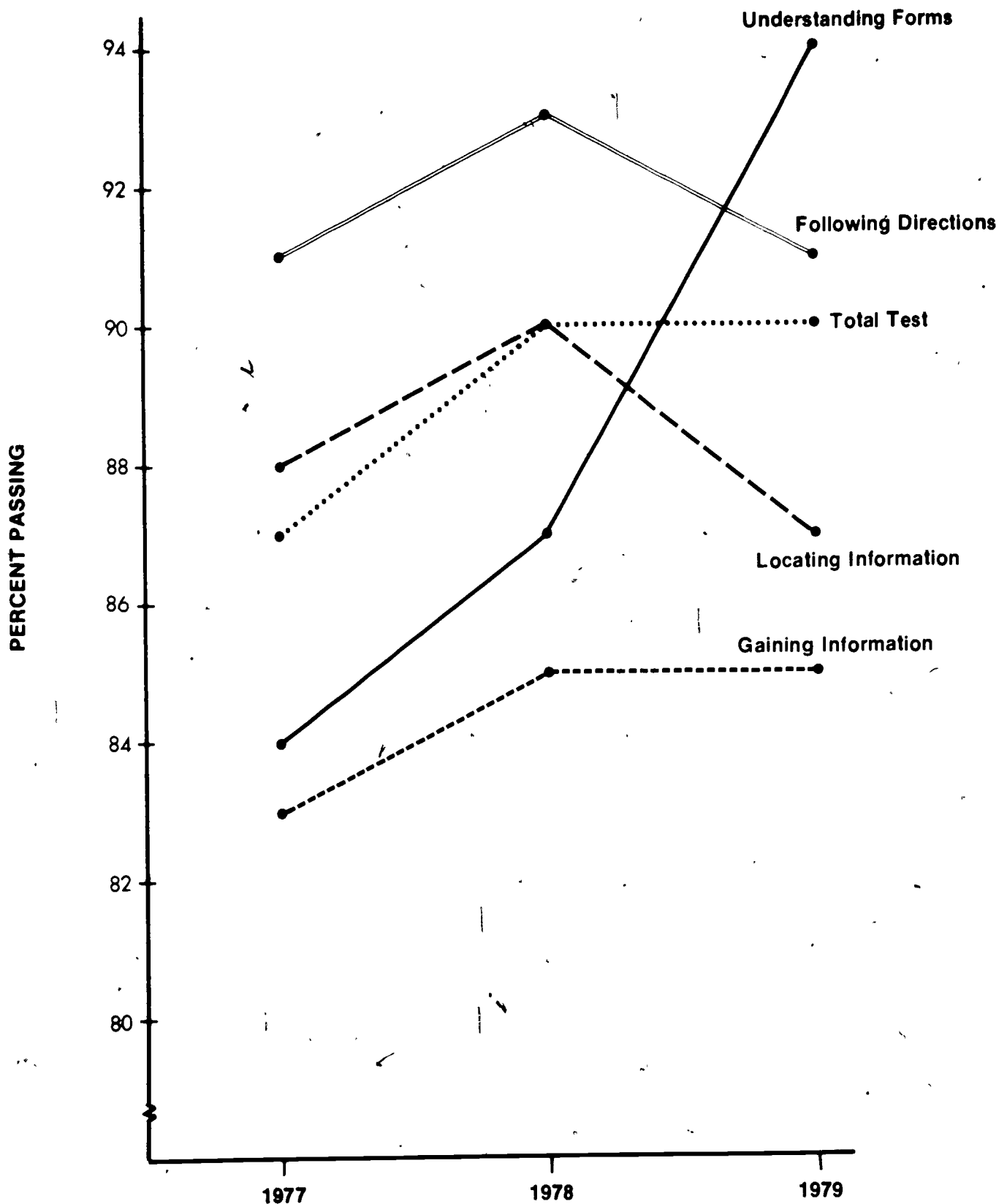
Females scored higher than males on the total test and on all objective categories in each of the three years reported.

TABLE 1.E.1

MCPS RESULTS FROM THE OCTOBER 1979 ADMINISTRATION
OF THE MARYLAND FUNCTIONAL READING TEST, GRADE 7

| | Year | Asian | Black | Hispanic | White | Male | Female | MCPS |
|--|------|-------|-------|----------|-------|-------|--------|-------|
| Locating Information (Percentage Passing) | 1979 | 92 | 72 | 83 | 89 | 83 | 91 | 87 |
| | 1978 | 93 | 71 | 83 | 93 | 87 | 93 | 90 |
| | 1977 | 94 | 69 | 82 | 90 | 84 | 91 | 88 |
| Understanding Forms (Percentage Passing) | 1979 | 96 | 83 | 94 | 95 | 92 | 96 | 94 |
| | 1978 | 91 | 68 | 79 | 90 | 83 | 91 | 87 |
| | 1977 | 91 | 61 | 78 | 87 | 79 | 88 | 84 |
| Gaining Information (Percentage Passing) | 1979 | 91 | 67 | 79 | 87 | 82 | 88 | 85 |
| | 1978 | 86 | 63 | 72 | 88 | 82 | 89 | 85 |
| | 1977 | 91 | 57 | 68 | 84 | 78 | 84 | 83 |
| Following Directions (Percentage Passing) | 1979 | 94 | 77 | 89 | 93 | 88 | 94 | 91 |
| | 1978 | 92 | 80 | 88 | 95 | 91 | 96 | 93 |
| | 1977 | 95 | 74 | 88 | 92 | 89 | 94 | 91 |
| Total Test (Percentage Passing) | 1979 | 94 | 74 | 87 | 92 | 87 | 93 | 90 |
| | 1978 | 91 | 71 | 81 | 92 | 87 | 93 | 90 |
| | 1977 | 96 | 63 | 84 | 90 | 84 | 91 | 87 |
| Number Tested | 1979 | 343 | 824 | 237 | 6,007 | 3,758 | 3,669 | 7,427 |
| | 1978 | 282 | 796 | 213 | 6,521 | 3,928 | 3,909 | 7,834 |
| | 1977 | 247 | 816 | 215 | 7,009 | 4,122 | 4,208 | 8,340 |
| Percentage of September 30 Enrollment Tested | 1979 | 90 | 98 | 92 | 99 | 98 | 99 | 99 |
| | 1978 | 92 | 98 | 91 | 97 | 96 | 98 | 97 |
| | 1977 | 82 | 99 | 83 | 98 | 97 | 98 | 97 |

Figure 1.E.1
Percent of MCPS Students Achieving Competency
on the Maryland Functional Reading Test
Objective Categories and Total Test
from 1977 to 1979



1.F. MCPS STUDENT PERFORMANCE ON COLLEGE BOARD TESTS

Introduction

The College Entrance Examination Board (CEEB) tests are examinations generally taken by college bound senior high school students. The Scholastic Aptitude Tests (SAT), the most widely taken tests in this group, were administered to approximately 68 percent of the 1980 MCPS graduating class. The CEEB Achievement Tests and the Advanced Placement Examinations (AP) were taken by less than 25 percent of this class, but these students were generally achieving at the top of the graduating class.

It is often claimed that the results from College Board tests provide a measure of how well county students are prepared for college. Scores on the SATs and achievement tests are data used by colleges to help make admissions decisions. AP results may be used to earn college credit or advanced standing in colleges. For these reasons performance on these tests may be a more accurate indicator of the skills of college bound students than the Tests of Academic Progress (TAP) administered in Grade 11. Because of the importance of the CEEB results to individual students, the students are likely to be better motivated than when taking the TAP.

Data

The SAT results for the last eight years are in Table 1.F.1. It shows the mean scores for males, females, and the total county. National results are also presented for those years. Also shown in this table is the percentage of the Grade 12 enrollment that was tested each year. The SAT score trends from 1979 to 1980 and the differences between MCPS and national means in 1980 are summarized in Table 1.F.2.

The MCPS and national mean scores for the last four years for each of the CEEB achievement tests are shown in Table 1.F.3. The trends from 1979 to 1980 and the differences between the MCPS and the national means are summarized in Table 1.F.4.

The results reported for the SAT and achievement tests are for graduating seniors the last time they took the test. That is, if they took the test in Grade 11 and not in Grade 12, their eleventh grade score would be included in these results. If they took the test in the twelfth grade, only the twelfth grade score would be included. Results have been reported in this way since 1973. Before then, Grade 11 and Grade 12 scores were reported separately. Therefore, pre-1973 results are not easily comparable to current data.

The AP results are presented in Table 1.F.5. as the percentage of students who attained each score on the five-point scale. Also provided are the numbers tested on each test and the cumulative percentages of students scoring at each point on the scale.

The AP results are for all students tested in 1980. Thus, they include students who are not 1980 seniors. This is being done to be consistent with previous years so data can be compared.

Analysis

The results from these tests are studied in two ways: score trends and differences between MCPS and national results. No formal statistical tests were performed.

Results

Highlights

- o The mean scores on the Scholastic Aptitude Test (SAT) for the class of 1980 were 503 on the Math test and 456 on the Verbal test. These scores represented a three-point increase on Math from 1979 and no change on Verbal.
- o The MCPS mean scores were well above the national average of 466 on Math and 424 on Verbal. The national trends were declines of one and three points on Math and Verbal, respectively.
- o Males outscored females on both SAT tests: 531 to 478 on Math and 460 to 452 on Verbal. These differences were similar to those on the national level.
- o MCPS mean scores increased on 8 of the 12 College Board achievement tests from 1979 to 1980. On 10 of the 12 achievement tests, the MCPS mean was higher than the national mean.
- o Scores on the Advanced Placement Examination declined slightly in 1980 as 45 percent of the students received a score of four or five. This was compared to 49 percent in 1979. This decline might have been related to the fact that 22 percent more students took these tests.

SAT Results

MCPS average score trends from 1979 to 1980 on the SATs were counter to the national trend. While the MCPS average went up three points on Math, the national trend was a one-point decline. The MCPS average remained the same on the Verbal test, while there was a three-point national decline.

The stable status of the Verbal mean resulted from a two-point increase by males and a one-point decrease by females. Both groups increased on Math; males five points and females two points. Females made up 53 percent of the group tested. Additionally, 71 percent of the females in the class were tested and only 65 percent of the males. The fact that a slightly larger percentage of females was tested could be related to their lower scores. This statement is based on the assumption that, since this is a college admission test, only higher achieving students choose to take the test. If more of one group takes the test, this could mean lower achieving members of that group are being tested.

The racial/ethnic breakdown of students taking the tests was the same as the breakdown for the graduating class. Fifteen percent of the students in the class were minority group members. Exact data as to the percentage of minority group members tested was not available because supplying such information was voluntary. However, 15 percent of those students who indicated their race were minority group members. This was an increase from 13 percent in 1979 and 12 percent in 1978. Scores by racial/ethnic group were not reported by the College Board.

Achievement Test Results

The average score for MCPS students increased on 8 of 12 of the CEEB achievement tests from 1979 to 1980. The largest MCPS increases were 24 points in Biology and 21 points in Physics. Nationally, these tests had 4- and 12-point increases.

The average score for MCPS decreased on four achievement tests. Spanish had the largest decrease, 37 points. This compared to an 18-point decline nationally.

The MCPS average was higher than the national average on all achievement tests except Spanish and German. The MCPS averages were seven and four points below the national average. The tests farthest above the national average were Chemistry and Literature, each 42 points above the national score.

It should be noted that the numbers of students taking each achievement test were a small portion of the graduating class. English was taken by the largest group, 1782. This was only 20 percent of the 1980 seniors in MCPS. The only other tests with more than 500 students were Mathematics I and Mathematics II. These small numbers made it difficult to evaluate score changes. This was partly because the groups being tested cannot be considered representative of the entire class. Thus, it was not evident whether score changes were a result of instructional strengths or weaknesses or simply a result of the changing composition of groups of students who took the tests.

Advanced Placement Results

Forty-five percent of the scores on Advanced Placement (AP) exams taken by MCPS students were four or five.¹ This was a decline of 4 percent from the previous year, indicating only a slight change. An increase of 22 percent (from 1170 to 1433) in the number of students tested could have been a factor in this decline. The AP program is designed for high achieving students. As with the achievement tests discussed above, it might be expected that the average achievement level would decline when the number of students in such a program increased.

The most popular courses, as in the past, were English (442 students) and Math Calculus (283). As with the achievement tests discussed above, the number of students taking these tests was so small that the groups cannot be considered representative of the graduating class and score changes were difficult to evaluate.

¹The AP scores range from one to five.

TABLE 1.F.1

SCHOLASTIC APTITUDE TEST RESULTS FOR MCPS AND NATIONAL, 1973-1980

(Mean Scores)

| Year | MCPS | | | | | | | | | National | | | | | |
|------|--------|--------|-------|------|--------|-------|------------------|--------------------------------------|--------|----------|-------|------|--------|-------|--|
| | Verbal | | | Math | | | Number Tested | Percentage of Sept. 30 Enrollment | Verbal | | | Math | | | |
| | Male | Female | Total | Male | Female | Total | | | Male | Female | Total | Male | Female | Total | |
| 1973 | 484 | 479 | 481 | 539 | 490 | 514 | 5,486 | 62 | 446 | 443 | 445 | 502 | 460 | 481 | |
| 1974 | 483 | 478 | 480 | 534 | 489 | 511 | 5,657 | 62 | 447 | 442 | 444 | 501 | 459 | 480 | |
| 1975 | 469 | 462 | 465 | 526 | 476 | 499 | 5,988 | 65 | 437 | 431 | 434 | 495 | 449 | 472 | |
| 1976 | 466 | 461 | 463 | 531 | 480 | 504 | 6,289 | 67 | 433 | 430 | 431 | 497 | 446 | 472 | |
| 1977 | 466 | 461 | 464 | 534 | 479 | 506 | 5,986 | 63 | 431 | 427 | 429 | 497 | 445 | 470 | |
| 1978 | 466 | 464 | 465 | 529 | 482 | 505 | 5,823 | 62 | 433 | 425 | 429 | 494 | 444 | 468 | |
| 1979 | 458 | 453 | 456 | 526 | 476 | 500 | 5,999 | 65 | 431 | 423 | 427 | 493 | 443 | 467 | |
| 1980 | 460 | 452 | 456 | 531 | 478 | 503 | 6,179 | 68 | 428 | 420 | 424 | 491 | 443 | 466 | |

TABLE 1.F.2

SCHOLASTIC APTITUDE TEST SCORE TRENDS
1979 TO 1980

| | 1979 to 1980 Trend in MCPS | 1979 to 1980 Trend Nationally | 1980 Difference Between MCPS and National (MCPS Always Higher) | MCPS 1980 Number Tested | Percentage of 1980 MCPS Enrollment Tested |
|---------------------|-------------------------------------|--|--|-------------------------------|---|
| SAT Verbal - Total | 0 | -3 | 32 | 6,179 | 68 |
| SAT Verbal - Male | +2 | -3 | 32 | 2,900 | 65 |
| SAT Verbal - Female | -1 | -3 | 32 | 3,279 | 71 |
| SAT Math - Total | +3 | -1 | 97 | 6,179 | 68 |
| SAT Math - Male | +5 | -3 | 40 | 2,899 | 65 |
| SAT Math - Female | +2 | 0 | 35 | 3,280 | 71 |

TABLE 1.F.3

COLLEGE ENTRANCE EXAMINATION BOARD ACHIEVEMENT TEST RESULTS

| Test | MCPS | | | | | | | | National | | | |
|------------------|------|---------------|------|---------------|------|---------------|------|---------------|----------|------|------|------|
| | 1977 | | 1978 | | 1979 | | 1980 | | 1977 | 1978 | 1979 | 1980 |
| | Mean | Number Tested | Mean | Number Tested | Mean | Number Tested | Mean | Number Tested | Mean | Mean | Mean | Mean |
| American History | 540 | 340 | 537 | 297 | 511 | 305 | 525 | 240 | 492 | 496 | 480 | 501 |
| Biology | 572 | 365 | 562 | 311 | 559 | 324 | 583 | 359 | 543 | 544 | 547 | 551 |
| Chemistry | 626 | 323 | 615 | 369 | 602 | 357 | 615 | 381 | 574 | 577 | 575 | 573 |
| English | 560 | 1,632 | 556 | 1,648 | 553 | 1,627 | 556 | 1,782 | 516 | 512 | 514 | 518 |
| European History | 568 | 48 | 540 | 66 | 566 | 71 | 571 | 78 | 526 | 507 | 524 | 539 |
| French | 591 | 331 | 583 | 337 | 577 | 297 | 563 | 371 | 553 | 552 | 554 | 550 |
| German | 564 | 33 | 585 | 37 | 571 | 50 | 548 | 51 | 551 | 553 | 550 | 552 |
| Literature | 575 | 197 | 577 | 202 | 570 | 181 | 566 | 214 | 520 | 521 | 522 | 514 |
| Mathematics I | 569 | 991 | 559 | 940 | 556 | 961 | 561 | 1,096 | 547 | 541 | 537 | 536 |
| Mathematics II | 704 | 434 | 701 | 510 | 684 | 539 | 685 | 635 | 666 | 665 | 657 | 653 |
| Physics | 621 | 83 | 623 | 72 | 594 | 94 | 615 | 73 | 593 | 591 | 580 | 592 |
| Spanish | 545 | 192 | 553 | 215 | 554 | 206 | 517 | 267 | 535 | 544 | 542 | 524 |
| Average | 575 | 1679 | 572 | 1,709 | 566 | 1,688 | 569 | 1,854 | 533 | 531 | 529 | 532 |

TABLE 1.F.4

COLLEGE ENTRANCE EXAMINATION BOARD
ACHIEVEMENT TEST SCORE TRENDS
1979 TO 1980

| | 1979 to 1980 Trend in MCPS | 1979 to 1980 Trend Nationally | 1980 Difference Between MCPS and National* | MCPS 1980 Number Tested |
|------------------|-------------------------------------|--|--|-------------------------------|
| American history | +14 | +21 | +24 | 240 |
| Biology | +24 | + 4 | +32 | 359 |
| Chemistry | +13 | - 2 | +42 | 381 |
| English | + 3 | + 4 | +38 | 1,782 |
| European History | + 5 | +15 | +32 | 78 |
| French | -14 | - 4 | +13 | 371 |
| German | -23 | + 2 | - 4 | 51 |
| Literature | - 4 | + 2 | +42 | 214 |
| Mathematics I | + 5 | - 1 | +25 | 1,096 |
| Mathematics II | + 1 | - 4 | +32 | 635 |
| Physics | +21 | +12 | +23 | 73 |
| Spanish | -37 | -18 | - 7 | 267 |
| Average | + 3 | + 3 | +37 | 1,854 |

* "+" = MCPS mean is higher; "-" = MCPS mean is lower.

TABLE 1.F.5

ADVANCED PLACEMENT EXAMINATION GRADE DISTRIBUTIONS, 1978-80

(Percentage Obtaining Each Score)

| Score | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | Number Tested | | |
|-----------------------|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---------------|-------|-------|
| Year | 78 | 79 | 80 | 78 | 79 | 80 | 78 | 79 | 80 | 78 | 79 | 80 | 78 | 79 | 80 | 78 | 79 | 80 |
| American History | 2 | 4 | 3 | 14 | 7 | 11 | 26 | 32 | 31 | 39 | 35 | 30 | 20 | 22 | 26 | 133 | 111 | 147 |
| Biology | 4 | 4 | 1 | 13 | 14 | 12 | 31 | 30 | 37 | 23 | 24 | 16 | 29 | 28 | 34 | 126 | 131 | 155 |
| Chemistry | 1 | 2 | 0 | 9 | 16 | 13 | 40 | 34 | 30 | 25 | 25 | 29 | 25 | 23 | 29 | 68 | 83 | 94 |
| English | 1 | 1 | 1 | 15 | 13 | 14 | 41 | 38 | 43 | 24 | 27 | 24 | 18 | 22 | 19 | 314 | 356 | 442 |
| European History | 4 | 6 | 7 | 13 | 13 | 15 | 40 | 38 | 37 | 23 | 25 | 29 | 19 | 18 | 12 | 94 | 149 | 171 |
| French Language | 0 | 8 | 9 | 12 | 12 | 17 | 22 | 32 | 32 | 22 | 20 | 15 | 44 | 28 | 28 | 32 | 25 | 47 |
| Math Calculus | 11 | 13 | 13 | 9 | 14 | 17 | 27 | 29 | 31 | 20 | 23 | 23 | 33 | 21 | 15 | 199 | 228 | 283 |
| Physics | 7 | 4 | 10 | 11 | 8 | 29 | 26 | 23 | 21 | 33 | 33 | 27 | 72 | 33 | 13 | 27 | 52 | 52 |
| Spanish Language | 3 | 0 | 2 | 28 | 11 | 10 | 34 | 31 | 41 | 28 | 37 | 22 | 6 | 20 | 24 | 32 | 35 | 41 |
| Total Percentage | 4 | 5 | 5 | 13 | 13 | 14 | 34 | 33 | 36 | 25 | 27 | 24 | 24 | 22 | 21 | 1,025 | 1,170 | 1,432 |
| Cumulative Percentage | 100 | 100 | 100 | 96 | 95 | 95 | 83 | 82 | 81 | 49 | 49 | 45 | 24 | 22 | 21 | | | |

CHAPTER 2
ANALYSIS OF SCHOOL DATA

INTRODUCTION TO SCHOOL DATA ANALYSIS

Test results for individual schools for 1979-80 are presented in this chapter to provide an easily accessible source of data that is often needed for activities such as program planning and sampling. The chapter is divided into five sections:

- 2.A. ITBS or TAP Mean Scores and Longitudinal Data
- 2.B. School Interquartile Ranges on ITBS or TAP
- 2.C. Maryland Functional Reading Test
- 2.D. College Board Test Results
- 2.E. Cognitive Abilities Test Mean Scores

The tables of mean scores, by school, for each subtest of the Iowa Tests of Basic Skills (ITBS) or the Tests of Academic Progress (TAP) are presented in Section 2.A. This is part of the data that was provided to each school for its Annual School Report.

This section also contains results from a longitudinal/migration analysis that, separately, considered students who had been in each school for two test administrations and those who were there for only one. These data are reported for students who were tested in the same elementary school in Grade 3 (1978) and Grade 5 (1980) or the same junior high school in Grade 7 (1978) and Grade 9 (1980). These results give an indication of both the school's success with the students it has had for at least two years and the effect that students' transferring into and out of the school have on the school's results.

The national percentile ranks of the students scoring at the first quartile, median, and third quartile for each school are presented in Section 2.B. These data, presented in graphic format, provide a better picture of the overall level of achievement, as measured by standardized tests, than can be provided by the mean score alone. These interquartile ranges show the spread of scores of the middle half of the students in each school.

The percent of students in each school in Grade 7 who passed the Maryland Functional Reading Test is provided in Section 2.C.

School mean scores on tests administered by the College Entrance Examination Board are listed in Section 2.D. The scores presented are for the Scholastic Aptitude Tests (SAT) and several of the achievement tests.

A list of the school mean scores on the Cognitive Abilities Test is shown in the final section of this chapter, 2.E.

The cautions to be observed when reviewing test data that were discussed in Chapter 1 apply with school data also. Special attention needs to be paid to results from small groups and changing populations when reviewing school results.

2.A. ITBS AND TAP MEAN SCORES AND LONGITUDINAL DATA

Introduction

This section contains a copy of the table of mean scores for the Iowa Tests of Basic Skills (ITBS) or the Tests of Academic Progress (TAP) that was provided to each school for inclusion in its Annual School Report. Putting these tables in one source document provides a handy reference for reviewing the scores of specific schools. Review of the average test scores of the students in a school provides an indication of possible instructional strengths or weaknesses for that school.

Also presented in this section are the results from a longitudinal analysis for each school. This analysis has been done to remove a confounding factor in the review of school test data. Test scores for some students do not reflect their achievement in a given school because these students have been in that school for only a short period of time. The inclusion of the test scores of these students in the data for that school can lead to incorrect impressions about the success of the school's instructional program. This is especially true if a substantial proportion of the students in a given school have been in the school for a relatively brief period of time. A better indication of the quality of a school's program can be provided by the test scores of students who have been in the same school for at least two years, the period of time between administrations of systemwide tests to specific students. These school longitudinal data can be used to answer the following questions:

1. Did the score trend of a school longitudinal group indicate a substantial change in the achievement for that group?
2. How did students entering or leaving the school affect the overall school results?
3. Did students who were tested in the same school in both 1978 and 1980 score higher than students who were tested in that school for only one year?

Data

Countywide mean scores for students tested in the same school at two consecutive test administrations (1978 and 1980) are shown in Table 2.A.1. The trends of these mean scores can be used to help answer Question 1. This table is set up to make this easier by also including the magnitude of a score increase or decrease that would be considered substantial for a school longitudinal group, based on the county trend. Any NCE score change equal to or greater than the number in the table indicates a school that may have a very good program (if the trend is positive) or a program that might need help (if the trend is negative). These substantial changes are indicated in the individual school tables by a plus or minus.

- Similar data are presented in Table 2.A.2 for students tested in a school only once. Substantial score changes here indicated changes in the school population, especially if the number of students in the group was a large proportion of the number in the grade.

The school pages contain two different tables. The top table reports the school mean scores. The bottom table reports the longitudinal analysis.

School Means. The tables reporting mean scores contain grade equivalent (GE) scores for the ITBS and standard scores (SS) for the TAP. In addition, the national percentile rank, based on student norms, is reported for each mean score.¹ The mean scores for these tables have been computed using GEs and SSs rather than normal curve equivalents (NCE) which were used for most of the other data in this report. This computational method has been used to be consistent with the method required by the Maryland Accountability Program. The results generally would be very close to the results that would be found if NCEs were used.

Longitudinal Analysis. The tables for the longitudinal analysis contain mean test scores for students who were tested in the same school in both 1978 and 1980 (longitudinal groups). Also shown are the mean scores for students tested in each school in only one of the two years (nonlongitudinal groups). Substantial score changes (defined in the Analysis section) are indicated by "+" for increases and "-" for decreases. It should be remembered that the students in the two nonlongitudinal groups are completely different students. The results reported are for 1978 Grade 3 and 1980 Grade 5 in elementary schools and 1978 Grade 7 and 1980 Grade 9 in junior high schools.

Four mean scores are reported for each group, longitudinal (L) and nonlongitudinal (NL), for each year. These are the means for Reading Comprehension, Language (Spelling, Punctuation, Capitalization, and Usage), Mathematics (Concepts and Problem Solving), and the Composite. The mean scores were computed using normal curve equivalents because the analysis of these data involved determining score differences. (See NCEs in Appendix B.)

Scores of groups with fewer than ten members were not included in these tables because the mean scores of groups that small could fluctuate considerably as a result of one or two exceptionally high or low scores. If the longitudinal group for a school had fewer than 10 students, no data were reported for that school.

¹This is the percentile rank for a student who obtains the mean score. It does not represent the ranking of that school when compared to other schools.

The results are reported on a separate page for each school. The schools are in alphabetical order and are grouped by grade. The pages where each grade group starts follow:

Grades 3 and/or 5 - Page 81
Grades 7 and/or 9 - Page 205
Grade 11 - Page 244

Analysis

- A. School Means. No formal analysis was performed with the data in the tables of mean scores. These data are descriptive. The percentile ranks can be used to compare performance on the subtests to that on the Composite to determine strengths and weaknesses within a school.
- B. Longitudinal Analysis. Trend analysis is the most useful way to look at the data for longitudinal and nonlongitudinal groups. The important information is related to whether scores increased or decreased, not how high the scores are. This trend analysis is based on the assumption that a student or group of students should maintain the same relative standing (i.e., percentile rank) from year to year. If the longitudinal group trend fluctuates from this assumption beyond normal error limits, it could be a sign of a noteworthy program or of a program that needs some improvement. If a change of this magnitude occurs between nonlongitudinal groups, it could signify a substantial population shift.

The NCE mean scores should be compared to determine if score differences are substantial. A standard of greater than seven NCE points has been established to indicate that a difference was larger than might be expected to be caused by test error. However, because score differences across grades could be caused by factors extraneous to school programs, this standard has been adjusted. Some of these extraneous factors were discussed in Section 1.D, which deals with countywide longitudinal data. They include possible weaknesses in test norming, curricular changes impacting some grades more than others, and the time of the year that tests are administered. To account for these factors the seven point standard is computed from the countywide trends for school longitudinal and school nonlongitudinal groups. The amount of change needed to be considered substantial is shown in Table 2.A.1 for longitudinal groups and 2.A.2 for nonlongitudinal groups.

Data for any groups of less than 35 students should be treated with caution because of the possibility of fluctuation of means caused by relatively few extreme scores.

TABLE 2.A.1

COUNTYWIDE MEANS AND MAGNITUDE OF TREND NEEDED
TO INDICATE SUBSTANTIAL* CHANGE FOR LONGITUDINAL GROUPS

| | Elementary School Comparison | | | | Secondary School Comparison | | | |
|-----------------------|------------------------------|-----------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-------------------------|-------------------------|
| | 1978 Grade 3 NCE Mean | 1980 Grade 5 NCE Mean | Substantial Increase | Substantial Decrease | 1978 Grade 7 NCE Mean | 1980 Grade 9 NCE Mean | Substantial Increase | Substantial Decrease |
| Reading Comprehension | 62 | 60 | 6 | 10 | 54 | 54 | 8 | 8 |
| Language | 69 | 65 | 4 | 12 | 58 | 58 | 8 | 8 |
| Mathematics | 66 | 65 | 7 | 9 | 58 | 57 | 7 | 9 |
| Composite | 67 | 65 | 6 | 10 | 58 | 58 | 8 | 8 |

TABLE 2.A.2

COUNTYWIDE MEANS AND MAGNITUDE OF TREND NEEDED
TO INDICATE SUBSTANTIAL* CHANGE FOR NONLONGTUDINAL GROUPS

| | Elementary School Comparison | | | | Secondary School Comparison | | | |
|-----------------------|------------------------------|-----------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-------------------------|-------------------------|
| | 1978 Grade 3 NCE Mean | 1980 Grade 5 NCE Mean | Substantial Increase | Substantial Decrease | 1978 Grade 7 NCE Mean | 1980 Grade 9 NCE Mean | Substantial Increase | Substantial Decrease |
| Reading Comprehension | 55 | 53 | 6 | 10 | 51 | 51 | 8 | 8 |
| Language | 61 | 58 | 5 | 11 | 52 | 52 | 8 | 8 |
| Mathematics | 58 | 58 | 8 | 8 | 53 | 51 | 6 | 10 |
| Composite | 59 | 57 | 6 | 10 | 53 | 53 | 8 | 8 |

*Substantial is defined as greater than 7 NCE points above or below the county trend.

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | 5.9 | 56 |
| Vocabulary | 3.8 | 52 | 5.7 | 49 |
| Reading Comprehension | 3.7 | 49 | 5.6 | 47 |
| Spelling | 4.5 | 68 | 5.9 | 54 |
| Capitalization | 4.2 | 62 | 6.1 | 57 |
| Punctuation | 4.9 | 77 | 6.3 | 61 |
| Language Usage | 3.9 | 54 | 6.2 | 58 |
| Map Reading | 4.3 | 70 | 5.6 | 47 |
| Graphs and Tables | 4.6 | 76 | 6.2 | 62 |
| Reference Materials | 4.0 | 61 | 5.9 | 54 |
| Math Concepts | 3.8 | 52 | 6.1 | 60 |
| Math Problem Solving | 4.1 | 66 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | | 21 | 28 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 15 | 49 | 48 | 12 | 60 | 68 |
| Comprehension | 5 | 15 | 51 | 52 | 13 | 44- | 38 |
| Language Total | 3 | 15 | 62 | 72 | 12 | 65 | 76 |
| | 5 | 15 | 58 | 65 | 13 | 51- | 51 |
| Math Total | 3 | 15 | 54 | 58 | 12 | 65 | 76 |
| | 5 | 15 | 56 | 62 | 13 | 53- | 56 |
| Composite | 3 | 15 | 54 | 57 | 12 | 64 | 75 |
| | 5 | 15 | 57 | 63 | 13 | 47- | 44 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.8 | 78 |
| Vocabulary | 4.9 | 84 | 6.7 | 74 |
| Reading Comprehension | 5.0 | 83 | 6.5 | 69 |
| Spelling | 5.3 | 83 | 7.2 | 77 |
| Capitalization | 5.2 | 82 | 7.4 | 78 |
| Punctuation | 5.3 | 83 | 7.1 | 75 |
| Language Usage | 5.3 | 81 | 7.3 | 77 |
| Map Reading | 4.8 | 83 | 6.8 | 77 |
| Graphs and Tables | 4.9 | 83 | 7.1 | 81 |
| Reference Materials | 4.7 | 83 | 6.9 | 75 |
| Math Concepts | 4.6 | 79 | 6.7 | 75 |
| Math Problem Solving | 4.6 | 85 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | | 39 | 38 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years* | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 15 | 73 | 86 | 11 | 77 | 90 |
| Comprehension | 5 | 15 | 63- | 73 | 23 | 59- | 67 |
| Language Total | 3 | 15 | 78 | 91 | 11 | 79 | 91 |
| | 5 | 15 | 72 | 85 | 23 | 68- | 80 |
| Math Total | 3 | 15 | 79 | 92 | 11 | 79 | 91 |
| | 5 | 15 | 68- | 81 | 23 | 65- | 76 |
| Composite | 3 | 15 | 80 | 92 | 11 | 79 | 92 |
| | 5 | 15 | 70- | 83 | 23 | 66- | 77 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.6 | 74 |
| Vocabulary | 4.8 | 82 | 6.7 | 74 |
| Reading Comprehension | 4.7 | 76 | 6.4 | 67 |
| Spelling | 4.8 | 74 | 6.4 | 64 |
| Capitalization | 5.3 | 84 | 7.1 | 74 |
| Punctuation | 5.3 | 83 | 6.9 | 72 |
| Language Usage | 5.0 | 76 | 7.0 | 72 |
| Map Reading | 5.0 | 86 | 6.6 | 73 |
| Graphs and Tables | 5.2 | 88 | 6.8 | 76 |
| Reference Materials | 4.8 | 85 | 6.8 | 73 |
| Math Concepts | 4.6 | 79 | 6.6 | 72 |
| Math Problem Solving | 5.0 | 92 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | 29 | | 25 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 17 | 63 | 73 | 13 | 64 | 74 |
| Comprehension | 5 | 17 | 58 | 65 | | | |
| Language Total | 3 | 18 | 67 | 79 | 13 | 63 | 73 |
| | 5 | 18 | 66 | 77 | | | |
| Math Total | 3 | 18 | 65 | 76 | 13 | 61 | 70 |
| | 5 | 18 | 65 | 76 | | | |
| Composite | 3 | 16 | 67 | 79 | 13 | 66 | 77 |
| | 5 | 16 | 67 | 79 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.9 | 80 |
| Vocabulary | 4.7 | 80 | 7.0 | 80 |
| Reading Comprehension | 4.8 | 78 | 6.7 | 73 |
| Spelling | 5.3 | 83 | 7.0 | 74 |
| Capitalization | 5.5 | 87 | 7.1 | 74 |
| Punctuation | 5.9 | 90 | 6.9 | 72 |
| Language Usage | 5.1 | 78 | 7.1 | 74 |
| Map Reading | 4.6 | 78 | 6.7 | 75 |
| Graphs and Tables | 4.9 | 83 | 7.0 | 79 |
| Reference Materials | 4.7 | 83 | 7.0 | 77 |
| Math Concepts | 4.8 | 84 | 7.1 | 83 |
| Math Problem Solving | 4.6 | 85 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | 40 | | 62 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 48 | 67 | 79 | 13 | 73 | 86 |
| Comprehension | 5 | 48 | 66 | 77 | 14 | 60 | 69 |
| Language Total | 3 | 48 | 71 | 84 | 13 | 66 | 77 |
| | 5 | 48 | 68 | 80 | 14 | 63 | 73 |
| Math Total | 3 | 48 | 71 | 84 | 13 | 73 | 86 |
| | 5 | 48 | 72 | 85 | 14 | 60 | 69 |
| Composite | 3 | 48 | 73 | 86 | 13 | 73 | 86 |
| | 5 | 48 | 71 | 84 | 14 | 61 | 70 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.7 | 76 |
| Vocabulary | 4.4 | 72 | 6.6 | 72 |
| Reading Comprehension | 4.4 | 68 | 6.5 | 69 |
| Spelling | 5.3 | 83 | 6.8 | 71 |
| Capitalization | 5.1 | 81 | 7.2 | 75 |
| Punctuation | 5.4 | 84 | 7.0 | 73 |
| Language Usage | 4.6 | 68 | 6.7 | 67 |
| Map Reading | 4.3 | 70 | 6.7 | 75 |
| Graphs and Tables | 4.8 | 81 | 6.9 | 78 |
| Reference Materials | 4.3 | 72 | 6.7 | 71 |
| Math Concepts | 4.2 | 66 | 6.4 | 67 |
| Math Problem Solving | 4.3 | 75 | 6.6 | 77 |
| NUMBER TAKING ALL SUBTESTS | 66 | | 69 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 53 | 63 | 73 | 16 | 57 | 63 |
| | 5 | 53 | 61 | 70 | | | |
| Language Total | 3 | 53 | 72 | 85 | 16 | 64 | 74 |
| | 5 | 53 | 65 | 76 | | | |
| Math Total | 3 | 54 | 65 | 76 | 16 | 62 | 71 |
| | 5 | 54 | 65 | 76 | | | |
| Composite | 3 | 52 | 68 | 81 | 16 | 63 | 73 |
| | 5 | 52 | 66 | 78 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.0 | 88 | 6.9 | 80 |
| Vocabulary | 4.7 | 80 | 6.7 | 74 |
| Reading Comprehension | 5.1 | 84 | 6.6 | 71 |
| Spelling | 5.6 | 87 | 7.3 | 79 |
| Capitalization | 5.6 | 88 | 7.5 | 80 |
| Punctuation | 6.0 | 92 | 7.3 | 78 |
| Language Usage | 5.2 | 80 | 7.3 | 77 |
| Map Reading | 4.8 | 83 | 7.0 | 81 |
| Graphs and Tables | 5.1 | 86 | 7.5 | 87 |
| Reference Materials | 5.0 | 89 | 7.1 | 79 |
| Math Concepts | 4.6 | 79 | 6.8 | 77 |
| Math Problem Solving | 4.7 | 87 | 6.8 | 81 |
| NUMBER TAKING ALL SUBTESTS | | 46 | | 67 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year. | | |
|-----------------------|-------|--|-------------|-------------------------------|--|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 53 | 68 | 81 | 11 | 63 | 73 |
| | 5 | 53 | 64 | 74 | 14 | 59 | 66 |
| Language Total | 3 | 53 | 77 | 90 | 11 | 75 | 88 |
| | 5 | 53 | 73 | 86 | 14 | 61 | 70 |
| Math Total | 3 | 53 | 71 | 84 | 11 | 72 | 85 |
| | 5 | 53 | 70 | 83 | 14 | 63 | 73 |
| Composite | 3 | 53 | 74 | 87 | 11 | 72 | 85 |
| | 5 | 53 | 71 | 84 | 14 | 63 | 73 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.5 | 72 |
| Vocabulary | 4.5 | 75 | 6.3 | 65 |
| Reading Comprehension | 4.5 | 71 | 6.3 | 64 |
| Spelling | 5.1 | 79 | 7.0 | 74 |
| Capitalization | 5.3 | 84 | 6.8 | 69 |
| Punctuation | 5.5 | 86 | 6.9 | 72 |
| Language Usage | 4.7 | 70 | 7.0 | 72 |
| Map Reading | 4.9 | 84 | 6.6 | 73 |
| Graphs and Tables | 5.0 | 84 | 6.7 | 74 |
| Reference Materials | 4.4 | 76 | 6.6 | 70 |
| Math Concepts | 4.8 | 84 | 6.4 | 67 |
| Math Problem Solving | 4.4 | 79 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | 74 | | 86 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 73 | 61 | 70 | 26 | 65 | 76 |
| Comprehension | 5 | 73 | 57 | 63 | 13 | 61 | 70 |
| Language Total | 3 | 73 | 68 | 80 | 26 | 74 | 87 |
| | 5 | 73 | 65 | 76 | 13 | 66 | 78 |
| Math Total | 3 | 73 | 62 | 71 | 26 | 67 | 79 |
| | 5 | 73 | 61 | 70 | 13 | 62 | 72 |
| Composite | 3 | 73 | 64 | 75 | 26 | 70 | 83 |
| | 5 | 73 | 62 | 72 | 13 | 64 | 74 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.9 | 58 | 6.1 | 62 |
| Vocabulary | 3.7 | 49 | 5.9 | 54 |
| Reading Comprehension | 3.8 | 52 | 5.9 | 55 |
| Spelling | 4.3 | 64 | 5.9 | 54 |
| Capitalization | 4.2 | 62 | 6.1 | 57 |
| Punctuation | 4.3 | 65 | 5.9 | 54 |
| Language Usage | 3.9 | 54 | 6.4 | 62 |
| Map Reading | 3.9 | 56 | 6.6 | 73 |
| Graphs and Tables | 4.5 | 74 | 6.3 | 65 |
| Reference Materials | 3.9 | 57 | 6.3 | 64 |
| Math Concepts | 3.9 | 56 | 6.1 | 60 |
| Math Problem Solving | 3.9 | 57 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | 34 | | 42 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 34 | 52 | 54 | 15 | 57 | 63 |
| Comprehension | 5 | 34 | 53 | 56 | | | |
| Language Total | 3 | 34 | 58 | 64 | 15 | 59 | 67 |
| | 5 | 34 | 55 | 59 | | | |
| Math Total | 3 | 34 | 57 | 63 | 15 | 60 | 68 |
| | 5 | 34 | 61 | 70 | | | |
| Composite | 3 | 34 | 57 | 63 | 15 | 58 | 65 |
| | 5 | 34 | 58 | 64 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 7.2 | 86 |
| Vocabulary | 4.8 | 82 | 7.1 | 82 |
| Reading Comprehension | 4.9 | 81 | 6.9 | 78 |
| Spelling | 5.6 | 87 | 7.4 | 80 |
| Capitalization | 5.6 | 88 | 7.7 | 82 |
| Punctuation | 5.8 | 89 | 6.9 | 72 |
| Language Usage | 4.9 | 74 | 7.3 | 77 |
| Map Reading | 4.9 | 84 | 7.3 | 86 |
| Graphs and Tables | 4.9 | 83 | 7.4 | 85 |
| Reference Materials | 4.8 | 85 | 7.2 | 81 |
| Math Concepts | 4.6 | 79 | 7.2 | 85 |
| Math Problem Solving | 4.5 | 82 | 7.0 | 85 |
| NUMBER TAKING ALL SUBTESTS | 54 | | 53 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 35 | 77 | 90 | 16 | 71 | 84 |
| Comprehension | 5 | 35 | 72 | 85 | 18 | 55 | 60 |
| Language Total | 3 | 35 | 82 | 94 | 16 | 76 | 89 |
| | 5 | 35 | 76 | 89 | 18 | 60 | 68 |
| Math Total | 3 | 35 | 79 | 92 | 16 | 72 | 85 |
| | 5 | 35 | 78 | 91 | 18 | 66 | 78 |
| Composite | 3 | 35 | 83 | 94 | 14 | 75 | 88 |
| | 5 | 35 | 78 | 91 | 18 | 62 | 72 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 7.0 | 82 |
| Vocabulary | 4.7 | 80 | 6.8 | 76 |
| Reading Comprehension | 4.7 | 76 | 6.8 | 76 |
| Spelling | 5.7 | 89 | 7.1 | 76 |
| Capitalization | 5.5 | 87 | 7.7 | 82 |
| Punctuation | 6.2 | 94 | 7.3 | 78 |
| Language Usage | 5.2 | 80 | 7.2 | 76 |
| Map Reading | 4.8 | 83 | 6.8 | 77 |
| Graphs and Tables | 4.9 | 83 | 7.5 | 87 |
| Reference Materials | 4.6 | 81 | 7.0 | 77 |
| Math Concepts | 5.0 | 89 | 7.2 | 85 |
| Math Problem Solving | 4.7 | 87 | 6.7 | 79 |
| NUMBER TAKING ALL SUBTESTS | | 60 | 76 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 50 | 64 | 75 | 11 | 69 | 82 |
| | 5 | 50 | 65 | 76 | 26 | 64 | 75 |
| Language Total | 3 | 50 | 72 | 85 | 11 | 73 | 86 |
| | 5 | 50 | 71 | 84 | 26 | 69 | 82 |
| Math Total | 3 | 50 | 65 | 76 | 11 | 64 | 75 |
| | 5 | 50 | 74+ | 87 | 26 | 68 | 80 |
| Composite | 3 | 50 | 70 | 83 | 11 | 72 | 85 |
| | 5 | 50 | 71 | 84 | 26 | 68 | 81 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.1 | 90 | 7.3 | 88 |
| Vocabulary | 4.9 | 84 | 7.1 | 82 |
| Reading Comprehension | 5.4 | 89 | 6.9 | 78 |
| Spelling | 5.3 | 83 | 7.4 | 80 |
| Capitalization | 5.2 | 82 | 7.9 | 85 |
| Punctuation | 5.8 | 89 | 7.7 | 84 |
| Language Usage | 5.1 | 78 | 7.4 | 79 |
| Map Reading | 5.3 | 90 | 7.5 | 88 |
| Graphs and Tables | 5.3 | 89 | 7.8 | 90 |
| Reference Materials | 4.9 | 87 | 7.1 | 79 |
| Math Concepts | 4.9 | 87 | 7.5 | 90 |
| Math Problem Solving | 4.7 | 87 | 7.0 | 85 |
| NUMBER TAKING ALL SUBTESTS | 35 | | 51 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 39 | 78 | 91 | 13 | 69 | 82 |
| | 5 | 39 | 68 | 81 | 12 | 61 | 70 |
| Language Total | 3 | 39 | 78 | 91 | 13 | 75 | 88 |
| | 5 | 39 | 73 | 86 | 12 | 75 | 88 |
| Math Total | 3 | 39 | 81 | 93 | 13 | 74 | 87 |
| | 5 | 39 | 77 | 90 | 12 | 77 | 90 |
| Composite | 3 | 39 | 81 | 93 | 13 | 75 | 88 |
| | 5 | 39 | 75 | 88 | 12 | 72 | 85 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.3 | 38 | 5.2 | 38 |
| Vocabulary | 3.1 | 33 | 5.0 | 33 |
| Reading Comprehension | 3.0 | 29 | 5.0 | 32 |
| Spelling | 4.0 | 57 | 5.4 | 43 |
| Capitalization | 3.7 | 50 | 5.7 | 50 |
| Punctuation | 3.7 | 49 | 5.4 | 43 |
| Language Usage | 3.5 | 45 | 5.5 | 46 |
| Map Reading | 2.9 | 24 | 5.4 | 41 |
| Graphs and Tables | 3.5 | 43 | 5.5 | 44 |
| Reference Materials | 3.4 | 39 | 5.5 | 44 |
| Math Concepts | 3.3 | 34 | 5.3 | 38 |
| Math Problem Solving | 3.2 | 33 | 5.1 | 34 |
| NUMBER TAKING ALL SUBTESTS | 24 | | 28 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 16 | 48 | 46 | 16 | 47 | 44 |
| Comprehension | 5 | 16 | 42 | 35 | 12 | 37- | 27 |
| Language Total | 3 | 16 | 59 | 67 | 16 | 59 | 66 |
| | 5 | 16 | 48 | 46 | 12 | 45- | 40 |
| Math Total | 3 | 16 | 48 | 47 | 16 | 46 | 43 |
| | 5 | 16 | 42 | 35 | 12 | 42 | 36 |
| Composite | 3 | 16 | 50 | 50 | 16 | 50 | 50 |
| | 5 | 16 | 43 | 37 | 12 | 39- | 30 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.8 | 78 |
| Vocabulary | 4.3 | 69 | 6.8 | 76 |
| Reading Comprehension | 4.3 | 66 | 6.5 | 69 |
| Spelling | 4.8 | 74 | 7.1 | 76 |
| Capitalization | 5.2 | 82 | 7.6 | 81 |
| Punctuation | 5.4 | 84 | 7.2 | 77 |
| Language Usage | 4.5 | 66 | 7.2 | 76 |
| Map Reading | 4.5 | 76 | 6.4 | 68 |
| Graphs and Tables | 4.7 | 79 | 6.8 | 76 |
| Reference Materials | 4.3 | 72 | 6.6 | 70 |
| Math Concepts | 4.3 | 69 | 7.3 | 87 |
| Math Problem Solving | 4.5 | 82 | 6.6 | 77 |
| NUMBER TAKING ALL SUBTESTS | 60 | | 43 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 31 | 68 | 80 | 21 | 51 | 52 |
| Comprehension | 5 | 31 | 61 | 70 | | 61+ | 70 |
| Language Total | 3 | 31 | 74 | 87 | 21 | 59 | 66 |
| | 5 | 31 | 69 | 82 | 12 | 71+ | 84 |
| Math Total | 3 | 31 | 71 | 84 | 20 | 57 | 63 |
| | 5 | 31 | 72 | 85 | 12 | 71+ | 84 |
| Composite | 3 | 31 | 71 | 84 | 19 | 56 | 62 |
| | 5 | 31 | 68 | 80 | 12 | 69+ | 82 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.1 | 90 | 7.7 | 93 |
| Vocabulary | 5.2 | 90 | 7.5 | 88 |
| Reading Comprehension | 5.0 | 83 | 7.4 | 87 |
| Spelling | 5.6 | 87 | 8.1 | 89 |
| Capitalization | 5.6 | 88 | 8.1 | 88 |
| Punctuation | 5.5 | 86 | 7.7 | 84 |
| Language Usage | 5.1 | 78 | 8.0 | 88 |
| Map Reading | 5.0 | 86 | 7.7 | 90 |
| Graphs and Tables | 5.0 | 84 | 8.0 | 92 |
| Reference Materials | 4.8 | 85 | 7.4 | 84 |
| Math Concepts | 4.8 | 84 | 7.8 | 93 |
| Math Problem Solving | 4.7 | 87 | 7.5 | 92 |
| NUMBER TAKING ALL SUBTESTS | | 27 | | 34 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 24 | 70 | 83 | 13 | 67 | 79 |
| | 5 | 24 | 72 | 85 | 10 | 77+ | 90 |
| Language Total | 3 | 24 | 74 | 87 | 13 | 73 | 86 |
| | 5 | 24 | 79+ | 91 | 10 | 80+ | 92 |
| Math Total | 3 | 24 | 75 | 88 | 13 | 74 | 87 |
| | 5 | 24 | 84+ | 94 | 10 | 82+ | 94 |
| Composite | 3 | 24 | 75 | 88 | 13 | 73 | 86 |
| | 5 | 24 | 80 | 92 | 10 | 84+ | 95 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | 5.4 | 44 |
| Vocabulary | 3.8 | 52 | 5.2 | 38 |
| Reading Comprehension | 3.7 | 49 | 5.2 | 37 |
| Spelling | 4.6 | 70 | 5.5 | 45 |
| Capitalization | 4.8 | 75 | 5.5 | 46 |
| Punctuation | 4.7 | 73 | 6.0 | 56 |
| Language Usage | 3.9 | 54 | 5.4 | 44 |
| Map Reading | 3.7 | 49 | 5.5 | 44 |
| Graphs and Tables | 4.3 | 68 | 5.6 | 47 |
| Reference Materials | 3.9 | 57 | 5.4 | 41 |
| Math Concepts | 3.8 | 52 | 5.6 | 46 |
| Math Problem Solving | 3.8 | 53 | 5.4 | 41 |
| NUMBER TAKING ALL SUBTESTS | 20 | | 68 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 19 | 53 | 56 | 11 | 42 | 35 |
| Comprehension | 5 | 19 | 54 | 57 | 49 | 39 | 30 |
| Language Total | 3 | 19 | 57 | 63 | 11 | 49 | 48 |
| | 5 | 19 | 56 | 61 | 49 | 45 | 41 |
| Math Total | 3 | 19 | 54 | 57 | 11 | 47 | 45 |
| | 5 | 19 | 61+ | 70 | 49 | 41 | 34 |
| Composite | 3 | 19 | 54 | 58 | 11 | 42 | 36 |
| | 5 | 19 | 57 | 63 | 49 | 40 | 32 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.3 | 71 | 7.1 | 84 |
| Vocabulary | 4.2 | 65 | 6.6 | 72 |
| Reading Comprehension | 4.3 | 66 | 6.8 | 76 |
| Spelling | 4.7 | 72 | 7.3 | 79 |
| Capitalization | 4.7 | 73 | 8.0 | 87 |
| Punctuation | 4.6 | 71 | 7.6 | 83 |
| Language Usage | 4.6 | 68 | 7.3 | 77 |
| Map Reading | 4.1 | 64 | 7.2 | 84 |
| Graphs and Tables | 4.3 | 68 | 7.7 | 89 |
| Reference Materials | 4.0 | 61 | 7.2 | 81 |
| Math Concepts | 4.0 | 59 | 7.5 | 90 |
| Math Problem Solving | 3.9 | 57 | 6.9 | 83 |
| NUMBER TAKING ALL SUBTESTS | | 92 | 79 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 43 | 66 | 78 | 43 | 53 | 56 |
| Comprehension | 5 | 43 | 68 | 80 | 36 | 63+ | 73 |
| Language Total | 3 | 43 | 73 | 86 | 43 | 59 | 66 |
| | 5 | 43 | 76 | 89 | 37 | 71+ | 84 |
| Math Total | 3 | 43 | 72 | 85 | 44 | 57 | 63 |
| | 5 | 43 | 78 | 91 | 37 | 74+ | 87 |
| Composite | 3 | 43 | 72 | 85 | 43 | 55 | 59 |
| | 5 | 43 | 74 | 87 | 36 | 71+ | 84 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.2 | 91 | 7.5 | 90 |
| Vocabulary | 5.0 | 86 | 7.2 | 84 |
| Reading Comprehension | 5.1 | 84 | 7.3 | 85 |
| Spelling | 5.4 | 84 | 7.6 | 83 |
| Capitalization | 5.5 | 87 | 8.2 | 89 |
| Punctuation | 5.8 | 89 | 8.0 | 88 |
| Language Usage | 5.1 | 78 | 7.4 | 79 |
| Map Reading | 5.2 | 89 | 7.5 | 88 |
| Graphs and Tables | 5.3 | 89 | 7.8 | 90 |
| Reference Materials | 4.9 | 87 | 7.4 | 84 |
| Math Concepts | 5.1 | 91 | 7.9 | 94 |
| Math Problem Solving | 5.0 | 92 | 7.3 | 90 |
| NUMBER TAKING ALL SUBTESTS | 60 | | 95 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 56 | 71 | 84 | 13 | 70 | 83 |
| Comprehension | 5 | 56 | 70 | 83 | 39 | 74 | 87 |
| Language Total | 3 | 55 | 79 | 91 | 13 | 76 | 89 |
| | 5 | 55 | 77 | 90 | 39 | 76 | 89 |
| Math Total | 3 | 56 | 79 | 92 | 13 | 79 | 92 |
| | 5 | 56 | 82 | 93 | 39 | 82 | 94 |
| Composite | 3 | 55 | 78 | 91 | 13 | 76 | 89 |
| | 5 | 55 | 77 | 90 | 39 | 80 | 92 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.4 | 73 | 5.8 | 54 |
| Vocabulary | 4.5 | 75 | 5.6 | 47 |
| Reading Comprehension | 4.2 | 63 | 5.6 | 47 |
| Spelling | 4.9 | 76 | 6.2 | 60 |
| Capitalization | 5.2 | 82 | 6.4 | 62 |
| Punctuation | 5.2 | 81 | 6.2 | 59 |
| Language Usage | 4.5 | 66 | 5.8 | 51 |
| Map Reading | 4.3 | 70 | 5.5 | 44 |
| Graphs and Tables | 4.4 | 71 | 6.1 | 60 |
| Reference Materials | 4.1 | 65 | 6.0 | 57 |
| Math Concepts | 4.2 | 66 | 5.9 | 54 |
| Math Problem Solving | 4.3 | 75 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | | 42 | 37 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 20 | 58 | 65 | | | |
| Comprehension | 5 | 20 | 48- | 47 | 17 | 48 | 46 |
| Language Total | 3 | 20 | 72 | 85 | | | |
| | 5 | 20 | 59- | 67 | 17 | 51 | 52 |
| Math Total | 3 | 20 | 69 | 82 | | | |
| | 5 | 20 | 57- | 63 | 17 | 50 | 50 |
| Composite | 3 | 20 | 69 | 82 | | | |
| | 5 | 20 | 54- | 58 | 17 | 50 | 50 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.6 | 74 |
| Vocabulary | 4.5 | 75 | 6.5 | 70 |
| Reading Comprehension | 4.6 | 74 | 6.5 | 69 |
| Spelling | 5.1 | 79 | 6.8 | 71 |
| Capitalization | 5.0 | 79 | 7.0 | 72 |
| Punctuation | 5.2 | 81 | 6.7 | 68 |
| Language Usage | 4.7 | 70 | 6.7 | 67 |
| Map Reading | 4.7 | 81 | 6.4 | 68 |
| Graphs and Tables | 4.8 | 81 | 6.7 | 74 |
| Reference Materials | 4.5 | 79 | 6.6 | 70 |
| Math Concepts | 4.3 | 69 | 7.0 | 81 |
| Math Problem Solving | 4.4 | 79 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | 74 | | 67 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 46 | 70 | 83 | 19 | 60 | 69 |
| | 5 | 46 | 67 | 79 | 21 | 44- | 39 |
| Language Total | 3 | 45 | 74 | 87 | 20 | 61 | 70 |
| | 5 | 45 | 72 | 85 | 21 | 47- | 44 |
| Math Total | 3 | 46 | 76 | 89 | 19 | 61 | 70 |
| | 5 | 46 | 72 | 85 | 21 | 48- | 47 |
| Composite | 3 | 45 | 75 | 88 | 19 | 62 | 71 |
| | 5 | 45 | 72 | 85 | 21 | 46- | 42 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.5 | 72 |
| Vocabulary | 4.4 | 72 | 6.4 | 67 |
| Reading Comprehension | 4.3 | 66 | 6.4 | 67 |
| Spelling | 5.2 | 81 | 7.0 | 74 |
| Capitalization | 5.1 | 81 | 7.0 | 72 |
| Punctuation | 5.0 | 78 | 6.8 | 70 |
| Language Usage | 4.6 | 68 | 6.8 | 69 |
| Map Reading | 4.3 | 70 | 6.6 | 73 |
| Graphs and Tables | 4.7 | 79 | 6.7 | 74 |
| Reference Materials | 4.4 | 76 | 6.7 | 71 |
| Math Concepts | 4.4 | 73 | 6.3 | 65 |
| Math Problem Solving | 4.2 | 70 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | 58 | | 69 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 48 | 66 | 77 | 11 | 53 | 55 |
| Comprehension | 5 | 48 | 63 | 73 | 21 | 52 | 53 |
| Language Total | 3 | 48 | 79 | 91 | 11 | 66 | 77 |
| | 5 | 48 | 70 | 83 | 21 | 52 | 54 |
| Math Total | 3 | 48 | 74 | 87 | 11 | 58 | 65 |
| | 5 | 48 | 62 | 72 | 21 | 53 | 55 |
| Composite | 3 | 48 | 74 | 87 | 11 | 60 | 69 |
| | 5 | 48 | 67 | 79 | 21 | 54 | 58 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.2 | 91 | 7.0 | 82 |
| Vocabulary | 5.1 | 88 | 7.0 | 80 |
| Reading Comprehension | 5.2 | 86 | 6.8 | 76 |
| Spelling | 5.5 | 86 | 7.1 | 76 |
| Capitalization | 5.9 | 92 | 6.9 | 71 |
| Punctuation | 6.2 | 94 | 7.0 | 73 |
| Language Usage | 5.3 | 81 | 7.3 | 77 |
| Map Reading | 5.2 | 89 | 7.1 | 83 |
| Graphs and Tables | 5.1 | 86 | 7.3 | 84 |
| Reference Materials | 5.1 | 90 | 6.9 | 75 |
| Math Concepts | 5.1 | 91 | 7.1 | 83 |
| Math Problem Solving | 4.8 | 89 | 6.9 | 83 |
| NUMBER TAKING ALL SUBTESTS | | 36 | 59 | |

* Mean for the national norm group for the Composite score.

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 44 | 67 | 79 | 16 | 65 | 76 |
| | 5 | 44 | 65 | 76 | | | |
| Language Total | 3 | 44 | 76 | 89 | | | |
| | 5 | 44 | 67 | 79 | 16 | 65 | 76 |
| Math Total | 3 | 44 | 83 | 94 | | | |
| | 5 | 44 | 74 | 87 | 16 | 68 | 81 |
| Composite | 3 | 42 | 77 | 90 | | | |
| | 5 | 42 | 71 | 84 | 15 | 70 | 83 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.4 | 70 |
| Vocabulary | 4.5 | 75 | 6.2 | 62 |
| Reading Comprehension | 4.1 | 60 | 6.6 | 71 |
| Spelling | 4.9 | 76 | 6.5 | 65 |
| Capitalization | 4.3 | 64 | 6.4 | 62 |
| Punctuation | 4.5 | 69 | 6.4 | 63 |
| Language Usage | 4.1 | 58 | 6.4 | 62 |
| Map Reading | 3.9 | 56 | 6.2 | 63 |
| Graphs and Tables | 4.2 | 65 | 6.4 | 67 |
| Reference Materials | 3.8 | 53 | 6.3 | 64 |
| Math Concepts | 4.0 | 59 | 6.2 | 62 |
| Math Problem Solving | 3.9 | 57 | 6.7 | 79 |
| NUMBER TAKING ALL SUBTESTS | | 78 | | 91 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 77 | 67 | 79 | 16 | 66 | 77 |
| Comprehension | 5 | 77 | 64 | 74 | 15 | 58 | 65 |
| Language Total | 3 | 76 | 70 | 83 | 16 | 69 | 82 |
| | 5 | 76 | 59 | 67 | 15 | 52 | 54 |
| Math Total | 3 | 77 | 62 | 71 | 16 | 62 | 71 |
| | 5 | 77 | 64 | 74 | 15 | 58 | 65 |
| Composite | 3 | 76 | 69 | 82 | 16 | 68 | 81 |
| | 5 | 76 | 63 | 73 | 15 | 56 | 61 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.6 | 74 |
| Vocabulary | 4.6 | 78 | 6.6 | 72 |
| Reading Comprehension | 4.8 | 78 | 6.5 | 69 |
| Spelling | 5.1 | 79 | 6.5 | 65 |
| Capitalization | 4.8 | 75 | 6.4 | 62 |
| Punctuation | 4.9 | 77 | 6.4 | 63 |
| Language Usage | 4.9 | 74 | 6.4 | 62 |
| Map Reading | 4.9 | 84 | 6.8 | 77 |
| Graphs and Tables | 5.1 | 86 | 7.0 | 79 |
| Reference Materials | 4.8 | 85 | 6.7 | 71 |
| Math Concepts | 4.4 | 73 | 6.6 | 72 |
| Math Problem Solving | 4.4 | 79 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | 34 | | 46 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 30 | 59 | 67 | 24 | 52 | 53 |
| Comprehension | 5 | 30 | 60 | 68 | 15 | 63+ | 73 |
| Language Total | 3 | 30 | 60 | 69 | 24 | 49 | 48 |
| | 5 | 30 | 56 | 62 | 15 | 63+ | 73 |
| Math Total | 3 | 31 | 65 | 76 | 24 | 52 | 54 |
| | 5 | 31 | 66 | 77 | 15 | 63+ | 73 |
| Composite | 3 | 30 | 63 | 73 | 24 | 51 | 52 |
| | 5 | 30 | 63 | 73 | 15 | 66+ | 78 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.6 | 74 |
| Vocabulary | 4.6 | 78 | 6.4 | 67 |
| Reading Comprehension | 4.6 | 74 | 6.3 | 64 |
| Spelling | 5.2 | 81 | 6.8 | 71 |
| Capitalization | 5.1 | 81 | 7.1 | 74 |
| Punctuation | 5.1 | 80 | 7.1 | 75 |
| Language Usage | 4.9 | 74 | 6.9 | 71 |
| Map Reading | 4.5 | 76 | 6.5 | 71 |
| Graphs and Tables | 4.7 | 79 | 7.0 | 79 |
| Reference Materials | 4.6 | 81 | 6.5 | 68 |
| Math Concepts | 4.3 | 69 | 6.9 | 79 |
| Math Problem Solving | 4.3 | 75 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | | 62 | | 87 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 56 | 65 | 76 | 35 | 57 | 63 |
| | 5 | 56 | 60 | 69 | 32 | 54 | 58 |
| Language Total | 3 | 56 | 68 | 81 | 35 | 59 | 66 |
| | 5 | 56 | 68 | 81 | 31 | 62 | 71 |
| Math Total | 3 | 56 | 68 | 80 | 35 | 54 | 57 |
| | 5 | 56 | 71 | 84 | 32 | 60 | 69 |
| Composite | 3 | 56 | 68 | 80 | 35 | 57 | 63 |
| | 5 | 56 | 67 | 79 | 31 | 59 | 67 |

SCHOOL MEAN SCORES: IQWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.1 | 65 | 5.7 | 51 |
| Vocabulary | 3.8 | 52 | 5.5 | 44 |
| Reading Comprehension | 4.1 | 60 | 5.7 | 50 |
| Spelling | 4.7 | 72 | 5.7 | 50 |
| Capitalization | 4.4 | 66 | 5.7 | 50 |
| Punctuation | 4.4 | 67 | 5.7 | 49 |
| Language Usage | 4.3 | 62 | 5.4 | 44 |
| Map Reading | 4.1 | 64 | 5.9 | 55 |
| Graphs and Tables | 4.2 | 65 | 5.9 | 55 |
| Reference Materials | 4.0 | 61 | 5.9 | 54 |
| Math Concepts | 4.0 | 59 | 5.8 | 52 |
| Math Problem Solving | 3.7 | 49 | 5.3 | 39 |
| NUMBER TAKING ALL SUBTESTS | 35 | | 51 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 17 | 54 | 58 | 12 | 55 | 59 |
| Comprehension | 5 | 17 | 47 | 44 | 34 | 51 | 51 |
| Language Total | 3 | 17 | 56 | 62 | 12 | 57 | 63 |
| | 5 | 17 | 47 | 44 | 34 | 49 | 49 |
| Math Total | 3 | 17 | 51 | 52 | 12 | 53 | 55 |
| | 5 | 17 | 44 | 39 | 34 | 50 | 50 |
| Composite | 3 | 17 | 54 | 57 | 12 | 55 | 60 |
| | 5 | 17 | 48 | 46 | 34 | 49 | 49 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.5 | 72 |
| Vocabulary | 4.4 | 72 | 6.3 | 65 |
| Reading Comprehension | 4.3 | 66 | 6.3 | 64 |
| Spelling | 4.9 | 76 | 6.6 | 67 |
| Capitalization | 5.0 | 79 | 7.3 | 77 |
| Punctuation | 5.2 | 81 | 6.6 | 67 |
| Language Usage | 4.5 | 66 | 6.7 | 67 |
| Map Reading | 4.4 | 73 | 6.4 | 68 |
| Graphs and Tables | 4.6 | 76 | 6.7 | 74 |
| Reference Materials | 4.2 | 69 | 6.2 | 61 |
| Math Concepts | 4.4 | 73 | 6.5 | 70 |
| Math Problem Solving | 4.2 | 70 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | 61 | | 65 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 53 | 57 | 63 | 14 | 72 | 85 |
| Comprehension | 5 | 53 | 58 | 65 | 11 | 60- | 68 |
| Language Total | 3 | 54 | 59 | 66 | 14 | 75 | 88 |
| | 5 | 54 | 64+ | 74 | 11 | 67 | 79 |
| Math Total | 3 | 53 | 53 | 56 | 14 | 68 | 80 |
| | 5 | 53 | 60+ | 68 | 11 | 64 | 75 |
| Composite | 3 | 52 | 58 | 64 | 14 | 75 | 88 |
| | 5 | 52 | 62 | 71 | 11 | 64- | 75 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.9 | 80 |
| Vocabulary | 4.7 | 80 | 6.7 | 74 |
| Reading Comprehension | 4.6 | 74 | 6.6 | 71 |
| Spelling | 5.2 | 81 | 7.2 | 77 |
| Capitalization | 5.1 | 81 | 7.4 | 78 |
| Punctuation | 5.5 | 86 | 7.1 | 75 |
| Language Usage | 4.8 | 72 | 7.2 | 76 |
| Map Reading | 4.5 | 76 | 6.8 | 77 |
| Graphs and Tables | 5.0 | 84 | 7.2 | 83 |
| Reference Materials | 4.7 | 83 | 7.1 | 79 |
| Math Concepts | 4.4 | 73 | 7.3 | 87 |
| Math Problem Solving | 4.5 | 82 | 6.8 | 81 |
| NUMBER TAKING ALL SUBTESTS | 71 | | 108 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 91 | 64 | 74 | 23 | 61 | 70 |
| | 5 | 91 | 62 | 71 | 17 | 60 | 68 |
| Language Total | 3 | 91 | 74 | 87 | 23 | 70 | 83 |
| | 5 | 91 | 70 | 83 | 17 | 66 | 78 |
| Math Total | 3 | 91 | 71 | 84 | 13 | 68 | 80 |
| | 5 | 91 | 73 | 86 | 17 | 75 | 88 |
| Composite | 3 | 91 | 71 | 84 | 23 | 68 | 80 |
| | 5 | 91 | 69 | 82 | 17 | 68 | 80 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.8 | 83 | 6.6 | 74 |
| Vocabulary | 4.6 | 78 | 6.6 | 72 |
| Reading Comprehension | 4.6 | 74 | 6.4 | 67 |
| Spelling | 4.9 | 76 | 6.9 | 72 |
| Capitalization | 5.2 | 82 | 7.0 | 72 |
| Punctuation | 5.5 | 86 | 6.8 | 70 |
| Language Usage | 4.7 | 70 | 6.9 | 71 |
| Map Reading | 4.9 | 84 | 6.6 | 73 |
| Graphs and Tables | 5.1 | 86 | 6.7 | 74 |
| Reference Materials | 4.5 | 79 | 6.5 | 68 |
| Math Concepts | 4.6 | 79 | 7.1 | 83 |
| Math Problem Solving | 4.5 | 82 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | 92 | | 98 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 45 | 67 | 79 | 19 | 64 | 74 |
| Comprehension | 5 | 45 | 60 | 69 | 53 | 59 | 66 |
| Language Total | 3 | 45 | 78 | 91 | 19 | 73 | 86 |
| | 5 | 45 | 69 | 82 | 53 | 62 | 71 |
| Math Total | 3 | 45 | 73 | 86 | 19 | 70 | 83 |
| | 5 | 45 | 72 | 85 | 53 | 64 | 74 |
| Composite | 3 | 45 | 74 | 87 | 19 | 70 | 83 |
| | 5 | 45 | 68 | 80 | 53 | 63 | 73 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.4 | 73 | 5.8 | 54 |
| Vocabulary | 3.8 | 52 | 5.8 | 52 |
| Reading Comprehension | 3.9 | 55 | 5.3 | 39 |
| Spelling | 4.8 | 74 | 5.9 | 54 |
| Capitalization | 5.1 | 81 | 5.8 | 52 |
| Punctuation | 5.3 | 83 | 6.0 | 56 |
| Language Usage | 4.5 | 66 | 5.9 | 53 |
| Map Reading | 4.5 | 76 | 6.0 | 58 |
| Graphs and Tables | 4.9 | 83 | 6.5 | 69 |
| Reference Materials | 4.3 | 72 | 6.2 | 61 |
| Math Concepts | 4.7 | 82 | 6.3 | 65 |
| Math Problem Solving | 4.5 | 82 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | | 39 | 23 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 11 | 49 | 49 | 17 | 63 | 73 |
| | 5 | 11 | 40 | 32 | 12 | 47- | 45 |
| Language Total | 3 | 11 | 68 | 81 | 17 | 73 | 86 |
| | 5 | 11 | 52- | 53 | 12 | 52- | 53 |
| Math Total | 3 | 11 | 74 | 87 | 16 | 82 | 93 |
| | 5 | 11 | 57- | 63 | 12 | 55- | 60 |
| Composite | 3 | 11 | 63 | 73 | 16 | 75 | 88 |
| | 5 | 11 | 51- | 52 | 12 | 52- | 54 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 5.7 | 51 |
| Vocabulary | 4.2 | 65 | 5.7 | 49 |
| Reading Comprehension | 4.3 | 66 | 5.5 | 44 |
| Spelling | 5.1 | 79 | 5.9 | 54 |
| Capitalization | 5.0 | 79 | 6.0 | 55 |
| Punctuation | 4.9 | 77 | 6.0 | 56 |
| Language Usage | 4.3 | 62 | 5.8 | 51 |
| Map Reading | 4.2 | 67 | 5.9 | 55 |
| Graphs and Tables | 4.6 | 76 | 5.8 | 52 |
| Reference Materials | 4.2 | 69 | 5.7 | 49 |
| Math Concepts | 4.3 | 69 | 5.8 | 52 |
| Math Problem Solving | 4.4 | 79 | 5.6 | 47 |
| NUMBER TAKING ALL SUBTESTS | 33 | | 61 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 47 | 53 | 56 | 13 | 54 | 58 |
| Comprehension | 5 | 47 | 51 | 51 | 14 | 32- | 20 |
| Language Total | 3 | 47 | 59 | 66 | 13 | 65 | 76 |
| | 5 | 47 | 55 | 60 | 14 | 41- | 33 |
| Math Total | 3 | 47 | 56 | 62 | 13 | 61 | 70 |
| | 5 | 47 | 54 | 57 | 14 | 41- | 34 |
| Composite | 3 | 47 | 56 | 62 | 13 | 60 | 69 |
| | 5 | 47 | 54 | 58 | 14 | 37- | 27 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.7 | 76 |
| Vocabulary | 4.4 | 72 | 6.6 | 72 |
| Reading Comprehension | 4.5 | 71 | 6.4 | 67 |
| Spelling | 5.1 | 79 | 6.9 | 72 |
| Capitalization | 5.5 | 87 | 7.3 | 77 |
| Punctuation | 5.2 | 81 | 6.8 | 70 |
| Language Usage | 4.7 | 70 | 7.2 | 76 |
| Map Reading | 4.5 | 76 | 6.6 | 73 |
| Graphs and Tables | 4.9 | 83 | 7.0 | 79 |
| Reference Materials | 4.5 | 79 | 6.6 | 70 |
| Math Concepts | 4.4 | 73 | 6.9 | 79 |
| Math Problem Solving | 4.2 | 70 | 6.6 | 77 |
| NUMBER TAKING ALL SUBTESTS | 33 | | 65 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 49 | 64 | 74 | 10 | 49 | 49 |
| Comprehension | 5 | 49 | 61 | 70 | 16 | 57+ | 63 |
| Language Total | 3 | 49 | 67 | 79 | 10 | 50 | 50 |
| | 5 | 49 | 69 | 82 | 16 | 60+ | 68 |
| Math Total | 3 | 49 | 66 | 77 | | | |
| | 5 | 49 | 69 | 82 | 16 | 63 | 73 |
| Composite | 3 | 49 | 67 | 79 | | | |
| | 5 | 49 | 67 | 79 | 16 | 61 | 70 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|------------------|---------------|------------------|---------------|
| | Grade Equivalent | Percentile | Grade Equivalent | Percentile |
| | Score (3.7)* | Rank (52)* | Score (5.7)* | Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.1 | 62 |
| Vocabulary | 4.3 | 69 | 5.8 | 52 |
| Reading Comprehension | 4.6 | 74 | 5.8 | 52 |
| Spelling | 5.1 | 79 | 6.3 | 62 |
| Capitalization | 5.1 | 81 | 6.8 | 69 |
| Punctuation | 5.6 | 87 | 6.6 | 67 |
| Language Usage | 4.6 | 68 | 6.1 | 57 |
| Map Reading | 4.5 | 76 | 5.9 | 55 |
| Graphs and Tables | 4.8 | 81 | 6.5 | 69 |
| Reference Materials | 4.4 | 76 | 6.0 | 57 |
| Math Concepts | 4.5 | 76 | 6.4 | 67 |
| Math Problem Solving | 4.4 | 79 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 80 | 92 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| | | | | | | | |
| Reading | 3 | 69 | 60 | 68 | 16 | 51 | 51 |
| Comprehension | 5 | 69 | 52 | 53 | 23 | 47 | 44 |
| Language Total | 3 | 69 | 66 | 78 | 16 | 51 | 52 |
| | 5 | 69 | 60 | 68 | 23 | 57+ | 63 |
| Math Total | 3 | 69 | 64 | 74 | 16 | 54 | 58 |
| | 5 | 69 | 60 | 68 | 23 | 54 | 58 |
| Composite | 3 | 69 | 64 | 74 | 16 | 51 | 51 |
| | 5 | 69 | 57 | 63 | 23 | 51 | 52 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 7.1 | 84 |
| Vocabulary | 4.7 | 80 | 6.8 | 76 |
| Reading Comprehension | 4.7 | 76 | 6.7 | 73 |
| Spelling | 5.2 | 81 | 7.0 | 74 |
| Capitalization | 5.3 | 84 | 7.4 | 78 |
| Punctuation | 5.8 | 89 | 7.4 | 80 |
| Language Usage | 5.1 | 78 | 7.2 | 76 |
| Map Reading | 4.7 | 81 | 7.0 | 81 |
| Graphs and Tables | 5.0 | 84 | 7.5 | 87 |
| Reference Materials | 4.8 | 85 | 7.2 | 81 |
| Math Concepts | 4.8 | 84 | 7.4 | 89 |
| Math Problem Solving | 4.7 | 87 | 6.9 | 83 |
| NUMBER TAKING ALL SUBTESTS | | 51 | 87 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 55 | 62 | 72 | 12 | 61 | 70 |
| | 5 | 55 | 62 | 72 | 32 | 67+ | 79 |
| Language Total | 3 | 55 | 67 | 79 | 12 | 64 | 74 |
| | 5 | 55 | 69 | 82 | 32 | 70+ | 83 |
| Math Total | 3 | 55 | 69 | 82 | 12 | 68 | 81 |
| | 5 | 55 | 74 | 87 | 32 | 77+ | 90 |
| Composite | 3 | 55 | 67 | 79 | 12 | 65 | 76 |
| | 5 | 55 | 70 | 83 | 32 | 73+ | 86 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.7 | 76 |
| Vocabulary | 4.5 | 75 | 6.6 | 72 |
| Reading Comprehension | 4.7 | 76 | 6.4 | 67 |
| Spelling | 5.1 | 79 | 6.9 | 72 |
| Capitalization | 5.0 | 79 | 6.9 | 71 |
| Punctuation | 5.5 | 86 | 6.7 | 68 |
| Language Usage | 4.8 | 72 | 6.8 | 69 |
| Map Reading | 4.8 | 83 | 6.7 | 75 |
| Graphs and Tables | 5.0 | 84 | 6.9 | 78 |
| Reference Materials | 4.7 | 83 | 6.8 | 73 |
| Math Concepts | 4.5 | 76 | 6.5 | 70 |
| Math Problem Solving | 4.5 | 82 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | | 104 | 97 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 75 | 67 | 79 | 21 | 57 | 63 |
| Comprehension | 5 | 75 | 64 | 74 | 25 | 48 | 47 |
| Language Total | 3 | 75 | 75 | 88 | 21 | 66 | 78 |
| | 5 | 75 | 67 | 79 | 25 | 54 | 57 |
| Math Total | 3 | 75 | 68 | 80 | 21 | 56 | 62 |
| | 5 | 75 | 67 | 79 | 24 | 51 | 51 |
| Composite | 3 | 74 | 74 | 87 | 21 | 61 | 70 |
| | 5 | 74 | 69 | 82 | 23 | 55 | 59 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.7 | 76 |
| Vocabulary | 4.5 | 75 | 6.6 | 72 |
| Reading Comprehension | 4.5 | 71 | 6.5 | 69 |
| Spelling | 5.1 | 79 | 6.8 | 71 |
| Capitalization | 5.0 | 79 | 6.8 | 69 |
| Punctuation | 5.1 | 80 | 7.0 | 73 |
| Language Usage | 4.6 | 68 | 6.8 | 69 |
| Map Reading | 4.5 | 76 | 6.6 | 73 |
| Graphs and Tables | 5.0 | 84 | 6.9 | 78 |
| Reference Materials | 4.4 | 76 | 6.7 | 71 |
| Math Concepts | 4.4 | 73 | 6.7 | 75 |
| Math Problem Solving | 4.6 | 85 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | | 80 | 88 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 65 | 63 | 73 | 10 | 59 | 67 |
| Comprehension | 5 | 65 | 61 | 70 | 23 | 62 | 72 |
| Language Total | 3 | 65 | 70 | 83 | 10 | 69 | 82 |
| | 5 | 65 | 64 | 74 | 23 | 64 | 75 |
| Math Total | 3 | 65 | 68 | 80 | 10 | 63 | 73 |
| | 5 | 65 | 65 | 76 | 23 | 69 | 82 |
| Composite | 3 | 65 | 69 | 82 | 10 | 66 | 77 |
| | 5 | 65 | 65 | 76 | 23 | 66 | 78 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | | |
| • Vocabulary | 4.0 | 59 | | |
| • Reading Comprehension | 3.8 | 52 | | |
| Spelling | 4.3 | 64 | | |
| Capitalization | 4.3 | 64 | | |
| Punctuation | 4.5 | 69 | | |
| Language Usage | 3.9 | 54 | | |
| Map Reading | 3.9 | 56 | | |
| Graphs and Tables | 4.1 | 61 | | |
| Reference Materials | 3.9 | 57 | | |
| Math Concepts | 3.8 | 52 | | |
| Math Problem Solving | 3.7 | 49 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | | 50 | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.3 | 67 |
| Vocabulary | 4.4 | 72 | 6.2 | 62 |
| Reading Comprehension | 4.5 | 71 | 6.2 | 62 |
| Spelling | 5.2 | 81 | 6.7 | 69 |
| Capitalization | 4.7 | 73 | 6.8 | 69 |
| Punctuation | 5.0 | 78 | 6.5 | 65 |
| Language Usage | 4.6 | 68 | 6.4 | 62 |
| Map Reading | 4.7 | 81 | 6.5 | 71 |
| Graphs and Tables | 4.6 | 76 | 6.6 | 72 |
| Reference Materials | 4.3 | 72 | 6.5 | 68 |
| Math Concepts | 4.4 | 73 | 6.3 | 65 |
| Math Problem Solving | 4.2 | 70 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 28 | 41 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 29 | 62 | 72 | 19 | 54 | 58 |
| | 5 | 29 | 60 | 69 | 12 | 47 | 45 |
| Language Total | 3 | 29 | 66 | 77 | 19 | 55 | 59 |
| | 5 | 29 | 64 | 75 | 12 | 54 | 58 |
| Math Total | 3 | 29 | 67 | 79 | 19 | 56 | 62 |
| | 5 | 29 | 59 | 66 | 12 | 54 | 57 |
| Composite | 3 | 29 | 66 | 78 | 19 | 56 | 62 |
| | 5 | 29 | 64 | 74 | 12 | 54 | 57 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.7 | 76 |
| Vocabulary | 4.7 | 80 | 6.5 | 70 |
| Reading Comprehension | 4.7 | 76 | 6.5 | 69 |
| Spelling | 5.3 | 83 | 6.8 | 71 |
| Capitalization | 4.9 | 77 | 6.6 | 66 |
| Punctuation | 5.2 | 81 | 6.5 | 65 |
| Language Usage | 4.8 | 72 | 7.0 | 72 |
| Map Reading | 4.4 | 73 | 6.8 | 77 |
| Graphs and Tables | 4.7 | 79 | 7.2 | 83 |
| Reference Materials | 4.3 | 72 | 6.6 | 70 |
| Math Concepts | 4.3 | 69 | 7.1 | 83 |
| Math Problem Solving | 4.4 | 79 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | 72 | | 78 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 52 | 59 | 66 | 17 | 57 | 63 |
| Comprehension | 5 | 52 | 59 | 67 | 26 | 62 | 72 |
| Language Total | 3 | 52 | 65 | 76 | 17 | 60 | 68 |
| | 5 | 52 | 63 | 73 | 26 | 63 | 73 |
| Math Total | 3 | 52 | 62 | 72 | 17 | 62 | 72 |
| | 5 | 52 | 68 | 81 | 26 | 70+ | 83 |
| Composite | 3 | 52 | 64 | 75 | 17 | 60 | 69 |
| | 5 | 52 | 65 | 76 | 26 | 65 | 76 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.8 | 78 |
| Vocabulary | 4.7 | 80 | 6.6 | 72 |
| Reading Comprehension | 5.0 | 83 | 6.5 | 69 |
| Spelling | 5.4 | 84 | 7.3 | 79 |
| Capitalization | 5.3 | 84 | 7.4 | 78 |
| Punctuation | 5.6 | 87 | 7.2 | 77 |
| Language Usage | 5.2 | 80 | 7.4 | 79 |
| Map Reading | 4.8 | 83 | 6.7 | 75 |
| Graphs and Tables | 5.3 | 89 | 7.2 | 83 |
| Reference Materials | 4.9 | 87 | 6.8 | 73 |
| Math Concepts | 4.5 | 76 | 6.7 | 75 |
| Math Problem Solving | 4.5 | 82 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | | 63 | 65 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 47 | 68 | 81 | 16 | 65 | 76 |
| | 5 | 47 | 64 | 74 | 18 | 51 | 52 |
| Language Total | 3 | 47 | 80 | 92 | 16 | 79 | 91 |
| | 5 | 47 | 74 | 87 | 18 | 61 | 70 |
| Math Total | 3 | 47 | 72 | 85 | 16 | 68 | 81 |
| | 5 | 47 | 67 | 79 | 18 | 60 | 69 |
| Composite | 3 | 47 | 76 | 89 | 16 | 73 | 86 |
| | 5 | 47 | 70 | 83 | 18 | 59 | 67 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.4 | 94 | 7.7 | 93 |
| Vocabulary | 5.6 | 95 | 7.3 | 86 |
| Reading Comprehension | 5.0 | 83 | 7.3 | 85 |
| Spelling | 5.5 | 86 | 7.4 | 80 |
| Capitalization | 6.2 | 96 | 8.5 | 93 |
| Punctuation | 6.4 | 96 | 8.2 | 90 |
| Language Usage | 5.4 | 83 | 8.0 | 88 |
| Map Reading | 5.3 | 90 | 8.0 | 93 |
| Graphs and Tables | 5.6 | 92 | 8.4 | 96 |
| Reference Materials | 5.2 | 92 | 7.6 | 88 |
| Math Concepts | 5.2 | 92 | 8.1 | 96 |
| Math Problem Solving | 4.8 | 89 | 7.3 | 90 |
| NUMBER TAKING ALL SUBTESTS | 44 | | 66 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 50 | 77 | 90 | | | |
| Comprehension | 5 | 50 | 73 | 86 | 16 | 71 | 84 |
| Language Total | 3 | 50 | 83 | 94 | | | |
| | 5 | 50 | 81 | 93 | 16 | 78 | 91 |
| Math Total | 3 | 50 | 84 | 95 | | | |
| | 5 | 50 | 85 | 95 | 16 | 79 | 91 |
| Composite | 3 | 50 | 85 | 95 | | | |
| | 5 | 50 | 82 | 94 | 16 | 79 | 91 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 5.4 | 44 |
| Vocabulary | 4.0 | 59 | 5.2 | 38 |
| Reading Comprehension | 4.2 | 63 | 5.4 | 42 |
| Spelling | 4.9 | 76 | 5.9 | 54 |
| Capitalization | 4.5 | 68 | 5.8 | 52 |
| Punctuation | 5.0 | 78 | 5.6 | 47 |
| Language Usage | 4.3 | 62 | 5.6 | 48 |
| Map Reading | 4.1 | 64 | 5.2 | 36 |
| Graphs and Tables | 4.2 | 65 | 5.4 | 42 |
| Reference Materials | 4.0 | 61 | 5.6 | 47 |
| Math Concepts | 3.8 | 52 | 5.3 | 38 |
| Math Problem Solving | 3.9 | 57 | 5.2 | 36 |
| NUMBER TAKING ALL SUBTESTS | | 66 | 46 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 31 | 55 | 59 | 23 | 55 | 60 |
| Comprehension | 5 | 31 | 52 | 54 | 15 | 31- | 18 |
| Language Total | 3 | 31 | 64 | 75 | 23 | 64 | 75 |
| | 5 | 31 | 56 | 62 | 15 | 35- | 24 |
| Math Total | 3 | 31 | 54 | 57 | 23 | 55 | 60 |
| | 5 | 31 | 48 | 46 | 15 | 32- | 19 |
| Composite | 3 | 31 | 57 | 63 | 23 | 60 | 68 |
| | 5 | 31 | 52 | 53 | 15 | 30- | 17 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.6 | 74 |
| Vocabulary | 4.5 | 75 | 6.3 | 65 |
| Reading Comprehension | 4.6 | 74 | 6.3 | 64 |
| Spelling | 5.0 | 78 | 6.8 | 71 |
| Capitalization | 5.1 | 81 | 7.0 | 72 |
| Punctuation | 5.0 | 78 | 6.6 | 67 |
| Language Usage | 4.6 | 68 | 6.6 | 65 |
| Map Reading | 4.5 | 76 | 6.9 | 79 |
| Graphs and Tables | 4.7 | 79 | 7.1 | 81 |
| Reference Materials | 4.4 | 76 | 6.6 | 70 |
| Math Concepts | 4.5 | 76 | 6.7 | 75 |
| Math Problem Solving | 4.3 | 75 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | | 47 | 80 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 61 | 63 | 73 | 23 | 59 | 67 |
| Comprehension | 5 | 61 | 58 | 64 | 19 | 57 | 63 |
| Language Total | 3 | 61 | 70 | 83 | 23 | 65 | 76 |
| | 5 | 61 | 63 | 73 | 20 | 62 | 71 |
| Math Total | 3 | 62 | 69 | 82 | 23 | 59 | 67 |
| | 5 | 62 | 66 | 77 | 20 | 62 | 71 |
| Composite | 3 | 60 | 69 | 82 | 23 | 62 | 71 |
| | 5 | 60 | 64 | 74 | 19 | 61 | 70 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.8 | 83 | 6.7 | 76 |
| Vocabulary | 4.5 | 75 | 6.3 | 65 |
| Reading Comprehension | 4.5 | 71 | 6.4 | 67 |
| Spelling | 5.3 | 83 | 6.7 | 69 |
| Capitalization | 5.6 | 88 | 6.6 | 66 |
| Punctuation | 5.3 | 83 | 6.8 | 70 |
| Language Usage | 4.8 | 72 | 7.0 | 72 |
| Map Reading | 4.7 | 81 | 6.9 | 79 |
| Graphs and Tables | 5.1 | 86 | 7.0 | 79 |
| Reference Materials | 4.7 | 83 | 6.7 | 71 |
| Math Concepts | 4.8 | 84 | 6.7 | 75 |
| Math Problem Solving | 4.7 | 87 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | | 23 | 27 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|--------------------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test* | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 21 | 68 | 80 | 10 | 58 | 65 |
| | 5 | 21 | 61 | 70 | | | |
| Language Total | 3 | 21 | 73 | 86 | 10 | 72 | 85 |
| | 5 | 21 | 64 | 75 | | | |
| Math Total | 3 | 21 | 75 | 88 | 10 | 70 | 83 |
| | 5 | 21 | 66 | 78 | | | |
| Composite | 3 | 21 | 74 | 87 | 10 | 68 | 81 |
| | 5 | 21 | 66 | 77 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.4 | 73 | 6.7 | 76 |
| Vocabulary | 4.4 | 72 | 6.4 | 67 |
| Reading Comprehension | 4.3 | 66 | 6.5 | 69 |
| Spelling | 5.0 | 78 | 6.8 | 71 |
| Capitalization | 4.9 | 77 | 7.6 | 71 |
| Punctuation | 4.9 | 77 | 7.1 | 75 |
| Language Usage | 4.6 | 68 | 7.0 | 72 |
| Map Reading | 4.5 | 76 | 6.9 | 79 |
| Graphs and Tables | 4.6 | 76 | 7.0 | 79 |
| Reference Materials | 4.2 | 69 | 6.7 | 71 |
| Math Concepts | 4.3 | 69 | 6.8 | 77 |
| Math Problem Solving | 4.1 | 66 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | | 43 | 29 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 26 | 59 | 67 | 16 | 50 | 50 |
| Comprehension | 5 | 26 | 61 | 70 | | | |
| Language Total | 3 | 26 | 65 | 76 | 16 | 60 | 68 |
| | 5 | 26 | 67 | 79 | | | |
| Math Total | 3 | 26 | 65 | 76 | 16 | 57 | 63 |
| | 5 | 26 | 65 | 76 | | | |
| Composite | 3 | 26 | 65 | 76 | 16 | 56 | 62 |
| | 5 | 26 | 66 | 77 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.9 | 80 |
| Vocabulary | 4.2 | 65 | 6.5 | 70 |
| Reading Comprehension | 4.2 | 63 | 6.8 | 76 |
| Spelling | 4.2 | 62 | 6.8 | 71 |
| Capitalization | 3.8 | 52 | 7.0 | 72 |
| Punctuation | 4.4 | 67 | 7.0 | 73 |
| Language Usage | 4.4 | 64 | 7.2 | 76 |
| Map Reading | 4.2 | 67 | 7.0 | 81 |
| Graphs and Tables | 4.4 | 71 | 7.6 | 88 |
| Reference Materials | 4.2 | 69 | 6.9 | 75 |
| Math Concepts | 4.0 | 59 | 7.1 | 83 |
| Math Problem Solving | 3.9 | 57 | 6.6 | 77 |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | | 47 | | 42 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 27 | 66 | 77 | 18 | 51 | 51 |
| | 5 | 27 | 66 | 78 | 15 | 64+ | 75 |
| Language Total | 3 | 27 | 63 | 73 | 18 | 55 | 60 |
| | 5 | 27 | 66 | 77 | 15 | 66+ | 77 |
| Math Total | 3 | 27 | 66 | 78 | 18 | 53 | 55 |
| | 5 | 27 | 73+ | 86 | 15 | 66+ | 77 |
| Composite | 3 | 27 | 67 | 79 | 18 | 54 | 58 |
| | 5 | 27 | 70 | 83 | 15 | 65+ | 76 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 5.8 | 54 |
| Vocabulary | 4.0 | 59 | 5.8 | 52 |
| Reading Comprehension | 4.4 | 68 | 5.8 | 52 |
| Spelling | 4.7 | 72 | 6.2 | 60 |
| Capitalization | 5.3 | 84 | 6.3 | 61 |
| Punctuation | 5.6 | 87 | 6.1 | 58 |
| Language Usage | 4.7 | 70 | 5.7 | 50 |
| Map Reading | 4.7 | 81 | 5.5 | 44 |
| Graphs and Tables | 4.9 | 83 | 6.0 | 57 |
| Reference Materials | 4.2 | 69 | 6.0 | 57 |
| Math Concepts | 4.7 | 82 | 5.6 | 46 |
| Math Problem Solving | 4.5 | 82 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | | 70 | 70 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 47 | 54 | 57 | 32 | 58 | 64 |
| Comprehension | 5 | 47 | 51 | 52 | 23 | 50 | 50 |
| Language Total | 3 | 47 | 70 | 83 | 32 | 68 | 81 |
| | 5 | 47 | 56 | 61 | 23 | 52 | 54 |
| Math Total | 3 | 47 | 59 | 66 | 32 | 60 | 68 |
| | 5 | 47 | 51 | 51 | 23 | 51 | 51 |
| Composite | 3 | 47 | 60 | 68 | 32 | 61 | 70 |
| | 5 | 47 | 52 | 54 | 23 | 53 | 55 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | 5.6 | 49 |
| Vocabulary | 3.8 | 52 | 5.4 | 42 |
| Reading Comprehension | 4.2 | 63 | 5.5 | 44 |
| Spelling | 4.3 | 64 | 5.7 | 50 |
| Capitalization | 4.4 | 66 | 5.9 | 54 |
| Punctuation | 4.5 | 69 | 5.5 | 45 |
| Language Usage | 3.9 | 54 | 5.4 | 44 |
| Map Reading | 4.0 | 60 | 5.5 | 44 |
| Graphs and Tables | 4.0 | 58 | 5.7 | 49 |
| Reference Materials | 3.8 | 53 | 5.9 | 54 |
| Math Concepts | 4.1 | 63 | 6.1 | 60 |
| Math Problem Solving | 3.8 | 53 | 5.4 | 41 |
| NUMBER TAKING ALL SUBTESTS | | 90 | 72 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 45 | 54 | 58 | 57 | 52 | 54 |
| | 5 | 45 | 51 | 51 | 28 | 38 | 29 |
| Language Total | 3 | 45 | 57 | 63 | 57 | 53 | 56 |
| | 5 | 45 | 51 | 52 | 28 | 44 | 39 |
| Math Total | 3 | 45 | 52 | 53 | 57 | 52 | 53 |
| | 5 | 45 | 57 | 63 | 29 | 42 | 36 |
| Composite | 3 | 45 | 56 | 61 | 57 | 51 | 52 |
| | 5 | 45 | 53 | 55 | 27 | 40 | 31 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.7 | 76 |
| Vocabulary | 4.5 | 75 | 6.2 | 62 |
| Reading Comprehension | 4.5 | 71 | 6.5 | 69 |
| Spelling | 5.4 | 84 | 6.9 | 72 |
| Capitalization | 5.3 | 84 | 7.5 | 80 |
| Punctuation | 5.2 | 81 | 7.2 | 77 |
| Language Usage | 4.7 | 70 | 6.9 | 71 |
| Map Reading | 4.5 | 76 | 7.1 | 83 |
| Graphs and Tables | 4.6 | 76 | 6.9 | 78 |
| Reference Materials | 4.2 | 69 | 6.8 | 73 |
| Math Concepts | 4.5 | 76 | 6.7 | 75 |
| Math Problem Solving | 4.3 | 75 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | | 41 | 55 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 46 | 61 | 70 | 21 | 56 | 62 |
| Comprehension | 5 | 46 | 62 | 71 | | | |
| Language Total | 3 | 43 | 64 | 75 | 21 | 66 | 78 |
| | 5 | 43 | 68+ | 80 | | | |
| Math Total | 3 | 46 | 58 | 65 | 20 | 60 | 68 |
| | 5 | 46 | 65+ | 76 | | | |
| Composite | 3 | 42 | 64 | 74 | 19 | 60 | 69 |
| | 5 | 42 | 66 | 78 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.3 | 71 | 6.6 | 74 |
| Vocabulary | 4.1 | 62 | 6.4 | 67 |
| Reading Comprehension | 4.1 | 60 | 6.7 | 73 |
| Spelling | 5.0 | 78 | 6.5 | 65 |
| Capitalization | 4.8 | 75 | 6.5 | 64 |
| Punctuation | 5.1 | 80 | 6.7 | 68 |
| Language Usage | 4.6 | 68 | 6.7 | 67 |
| Map Reading | 4.4 | 73 | 6.7 | 75 |
| Graphs and Tables | 4.5 | 74 | 6.9 | 78 |
| Reference Materials | 4.1 | 65 | 6.7 | 71 |
| Math Concepts | 4.0 | 59 | 6.2 | 62 |
| Math Problem Solving | 4.1 | 66 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | | 30 | 39 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 26 | 69 | 82 | | | |
| Comprehension | 5 | 26 | 67 | 79 | 13 | 54 | 58 |
| Language Total | 3 | 26 | 70 | 83 | | | |
| | 5 | 26 | 64 | 74 | 13 | 54 | 57 |
| Math Total | 3 | 26 | 67 | 79 | | | |
| | 5 | 26 | 62 | 72 | 13 | 53 | 56 |
| Composite | 3 | 26 | 71 | 84 | | | |
| | 5 | 26 | 67 | 79 | 13 | 55 | 60 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.9 | 80 |
| Vocabulary | 4.7 | 80 | 6.7 | 74 |
| Reading Comprehension | 4.8 | 78 | 6.5 | 69 |
| Spelling | 5.1 | 79 | 7.0 | 74 |
| Capitalization | 5.4 | 85 | 7.4 | 78 |
| Punctuation | 5.6 | 87 | 7.3 | 78 |
| Language Usage | 5.0 | 76 | 7.1 | 74 |
| Map Reading | 4.8 | 83 | 6.8 | 77 |
| Graphs and Tables | 5.1 | 86 | 7.2 | 83 |
| Reference Materials | 4.8 | 85 | 7.0 | 77 |
| Math Concepts | 4.7 | 82 | 7.3 | 87 |
| Math Problem Solving | 4.5 | 82 | 6.7 | 79 |
| NUMBER TAKING ALL SUBTESTS | | 79 | 82 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 40 | 66 | 77 | 18 | 57 | 63 |
| Comprehension | 5 | 40 | 60 | 69 | 42 | 61 | 70 |
| Language Total | 3 | 40 | 74 | 87 | 18 | 66 | 77 |
| | 5 | 40 | 69 | 82 | 42 | 68 | 81 |
| Math Total | 3 | 40 | 68 | 81 | 18 | 58 | 64 |
| | 5 | 40 | 74 | 87 | 42 | 71+ | 84 |
| Composite | 3 | 40 | 71 | 84 | 18 | 62 | 71 |
| | 5 | 40 | 69 | 82 | 42 | 68+ | 80 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.7 | 76 |
| Vocabulary | 4.4 | 72 | 6.7 | 74 |
| Reading Comprehension | 4.6 | 74 | 6.3 | 64 |
| Spelling | 5.0 | 78 | 6.6 | 67 |
| Capitalization | 5.0 | 79 | 7.4 | 78 |
| Punctuation | 5.2 | 81 | 7.1 | 75 |
| Language Usage | 4.8 | 72 | 6.9 | 71 |
| Map Reading | 4.7 | 81 | 6.7 | 75 |
| Graphs and Tables | 4.9 | 83 | 7.1 | 81 |
| Reference Materials | 4.6 | 81 | 6.6 | 70 |
| Math Concepts | 4.6 | 79 | 6.6 | 72 |
| Math Problem Solving | 4.5 | 82 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | 44 | | 63 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 40 | 62 | 71 | 14 | 53 | 56 |
| Comprehension | 5 | 40 | 61 | 70 | 23 | 53 | 55 |
| Language Total | 3 | 40 | 68 | 81 | 14 | 61 | 70 |
| | 5 | 40 | 70 | 83 | 23 | 60 | 68 |
| Math Total | 3 | 40 | 62 | 71 | 13 | 63 | 73 |
| | 5 | 40 | 66 | 77 | 23 | 61 | 70 |
| Composite | 3 | 40 | 65 | 76 | 13 | 61 | 70 |
| | 5 | 40 | 68 | 81 | 23 | 60 | 69 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.5 | 72 |
| Vocabulary | 4.2 | 65 | 7.3 | 86 |
| Reading Comprehension | 4.4 | 68 | 6.1 | 60 |
| Spelling | 4.7 | 72 | 6.7 | 69 |
| Capitalization | 5.1 | 81 | 6.8 | 69 |
| Punctuation | 5.5 | 86 | 6.7 | 68 |
| Language Usage | 4.9 | 74 | 6.5 | 63 |
| Map Reading | 4.3 | 70 | 6.2 | 63 |
| Graphs and Tables | 4.7 | 79 | 6.7 | 74 |
| Reference Materials | 4.3 | 72 | 6.3 | 64 |
| Math Concepts | 4.3 | 69 | 6.5 | 70 |
| Math Problem Solving | 4.3 | 75 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 77 | | 79 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 47 | 62 | 72 | 22 | 62 | 71 |
| Comprehension | 5 | 47 | 56 | 62 | 32 | 52 | 54 |
| Language Total | 3 | 47 | 73 | 86 | 21 | 71 | 84 |
| | 5 | 47 | 66 | 78 | 32 | 55 | 60 |
| Math Total | 3 | 47 | 71 | 84 | 21 | 64 | 75 |
| | 5 | 47 | 63 | 73 | 32 | 52 | 54 |
| Composite | 3 | 47 | 71 | 84 | 21 | 68 | 80 |
| | 5 | 47 | 67 | 79 | 32 | 58 | 64 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.3 | 71 | 6.5 | 72 |
| Vocabulary | 4.1 | 62 | 6.4 | 67 |
| Reading Comprehension | 4.1 | 60 | 6.4 | 67 |
| Spelling | 4.7 | 72 | 6.7 | 69 |
| Capitalization | 4.8 | 75 | 7.0 | 72 |
| Punctuation | 5.0 | 78 | 6.8 | 70 |
| Language Usage | 4.3 | 62 | 6.5 | 63 |
| Map Reading | 4.3 | 70 | 6.7 | 75 |
| Graphs and Tables | 4.4 | 71 | 6.9 | 78 |
| Reference Materials | 4.3 | 72 | 6.6 | 70 |
| Math Concepts | 4.2 | 66 | 6.5 | 70 |
| Math Problem Solving | 4.1 | 66 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | 74 | | 78 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 48 | 64 | 75 | 18 | 56 | 62 |
| | 5 | 48 | 65 | 76 | 30 | 49 | 49 |
| Language Total | 3 | 48 | 67 | 79 | 18 | 57 | 63 |
| | 5 | 48 | 66 | 77 | 30 | 57 | 63 |
| Math Total | 3 | 48 | 67 | 79 | 18 | 56 | 62 |
| | 5 | 48 | 67 | 79 | 30 | 54 | 57 |
| Composite | 3 | 47 | 68 | 80 | 17 | 55 | 60 |
| | 5 | 47 | 68 | 80 | 30 | 54 | 58 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.2 | 64 |
| Vocabulary | 4.1 | 62 | 6.1 | 60 |
| Reading Comprehension | 4.1 | 60 | 6.2 | 62 |
| Spelling | 4.8 | 74 | 6.7 | 69 |
| Capitalization | 4.8 | 75 | 6.5 | 64 |
| Punctuation | 5.2 | 81 | 6.4 | 63 |
| Language Usage | 4.3 | 62 | 6.4 | 62 |
| Map Reading | 4.0 | 60 | 6.2 | 63 |
| Graphs and Tables | 4.4 | 71 | 6.2 | 62 |
| Reference Materials | 4.1 | 65 | 6.4 | 66 |
| Math Concepts | 4.2 | 66 | 6.3 | 65 |
| Math Problem Solving | 4.0 | 62 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | | 55 | 62 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 47 | 62 | 71 | 26 | 54 | 58 |
| Comprehension | 5 | 47 | 57 | 63 | 17 | 53 | 55 |
| Language Total | 3 | 47 | 65 | 76 | 26 | 61 | 70 |
| | 5 | 47 | 61 | 70 | 17 | 55 | 59 |
| Math Total | 3 | 47 | 61 | 70 | 26 | 56 | 61 |
| | 5 | 47 | 60 | 69 | 17 | 53 | 55 |
| Composite | 3 | 47 | 64 | 74 | 26 | 58 | 65 |
| | 5 | 47 | 60 | 69 | 16 | 52 | 53 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.7 | 76 |
| Vocabulary | 4.4 | 72 | 6.6 | 72 |
| Reading Comprehension | 4.4 | 68 | 6.5 | 69 |
| Spelling | 5.0 | 78 | 7.0 | 74 |
| Capitalization | 5.2 | 82 | 7.3 | 77 |
| Punctuation | 5.4 | 84 | 7.0 | 73 |
| Language Usage | 4.5 | 66 | 7.0 | 72 |
| Map Reading | 4.6 | 78 | 6.9 | 79 |
| Graphs and Tables | 4.7 | 79 | 7.1 | 81 |
| Reference Materials | 4.4 | 76 | 6.8 | 73 |
| Math Concepts | 4.2 | 66 | 6.6 | 72 |
| Math Problem Solving | 3.9 | 57 | 6.4 | 72 |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 100 | | 100 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 85 | 63 | 73 | 15 | 52 | 54 |
| Comprehension | 5 | 85 | 60 | 69 | 45 | 59+ | 66 |
| Language Total | 3 | 85 | 70 | 83 | 15 | 56 | 62 |
| | 5 | 85 | 67 | 79 | 15 | 64+ | 75 |
| Math Total | 3 | 85 | 65 | 76 | 15 | 52 | 54 |
| | 5 | 85 | 65 | 76 | 15 | 62+ | 71 |
| Composite | 3 | 85 | 68 | 81 | 15 | 54 | 57 |
| | 5 | 85 | 67 | 79 | 15 | 62+ | 72 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.9 | 80 |
| Vocabulary | 4.7 | 80 | 6.7 | 74 |
| Reading Comprehension | 4.7 | 76 | 6.8 | 76 |
| Spelling | 5.0 | 78 | 6.8 | 71 |
| Capitalization | 5.0 | 79 | 6.8 | 69 |
| Punctuation | 5.2 | 81 | 7.0 | 73 |
| Language Usage | 5.0 | 76 | 7.2 | 76 |
| Map Reading | 4.9 | 84 | 6.9 | 79 |
| Graphs and Tables | 4.8 | 81 | 7.2 | 83 |
| Reference Materials | 4.4 | 76 | 6.7 | 71 |
| Math Concepts | 4.5 | 76 | 7.2 | 85 |
| Math Problem Solving | 4.4 | 79 | 7.0 | 85 |
| NUMBER TAKING ALL SUBTESTS | 27 | | 28 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 18 | 69 | 82 | 15 | 54 | 57 |
| Comprehension | 5 | 18 | 65 | 76 | 10 | 63 | 73 |
| Language Total | 3 | 18 | 75 | 88 | 15 | 64 | 74 |
| | 5 | 18 | 70 | 83 | 10 | 57 | 63 |
| Math Total | 3 | 18 | 75 | 88 | 15 | 64 | 75 |
| | 5 | 18 | 77 | 90 | 10 | 68 | 81 |
| Composite | 3 | 18 | 76 | 89 | 15 | 61 | 70 |
| | 5 | 18 | 72 | 85 | 10 | 64 | 74 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.1 | 65 | 6.0 | 59 |
| Vocabulary | 3.9 | 55 | 6.0 | 57 |
| Reading Comprehension | 4.0 | 57 | 5.9 | 55 |
| Spelling | 4.8 | 74 | 6.2 | 60 |
| Capitalization | 4.5 | 68 | 6.3 | 61 |
| Punctuation | 4.5 | 69 | 5.9 | 54 |
| Language Usage | 4.4 | 64 | 6.3 | 60 |
| Map Reading | 3.9 | 56 | 6.0 | 58 |
| Graphs and Tables | 4.3 | 68 | 6.1 | 60 |
| Reference Materials | 3.9 | 57 | 6.0 | 57 |
| Math Concepts | 4.0 | 59 | 5.9 | 54 |
| Math Problem Solving | 3.9 | 57 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | 65 | | 66 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 44 | 58 | 65 | 35 | 52 | 54 |
| Comprehension | 5 | 44 | 52 | 54 | 22 | 52 | 54 |
| Language Total | 3 | 43 | 68 | 81 | 35 | 62 | 72 |
| | 5 | 43 | 57 | 63 | 22 | 55 | 60 |
| Math Total | 3 | 44 | 67 | 79 | 35 | 60 | 68 |
| | 5 | 44 | 55- | 60 | 22 | 51- | 52 |
| Composite | 3 | 43 | 65 | 76 | 35 | 59 | 66 |
| | 5 | 43 | 56 | 62 | 22 | 54 | 57 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.1 | 62 |
| Vocabulary | 4.0 | 59 | 6.2 | 62 |
| Reading Comprehension | 4.1 | 60 | 5.8 | 52 |
| Spelling | 4.9 | 76 | 6.2 | 60 |
| Capitalization | 4.6 | 71 | 5.9 | 54 |
| Punctuation | 4.6 | 71 | 5.8 | 51 |
| Language Usage | 4.2 | 60 | 5.6 | 48 |
| Map Reading | 4.4 | 73 | 5.9 | 55 |
| Graphs and Tables | 4.6 | 76 | 6.3 | 65 |
| Reference Materials | 4.1 | 65 | 6.0 | 57 |
| Math Concepts | 4.1 | 63 | 6.7 | 75 |
| Math Problem Solving | 4.2 | 70 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | 94 | | 83 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 52 | 56 | 62 | 25 | 53 | 56 |
| Comprehension | 5 | 52 | 52 | 54 | 31 | 49 | 49 |
| Language Total | 3 | 53 | 58 | 64 | 25 | 59 | 66 |
| | 5 | 53 | 53 | 56 | 31 | 50 | 50 |
| Math Total | 3 | 53 | 55 | 60 | 25 | 58 | 64 |
| | 5 | 53 | 63+ | 73 | 30 | 57 | 63 |
| Composite | 3 | 51 | 56 | 61 | 25 | 57 | 63 |
| | 5 | 51 | 58 | 64 | 30 | 54 | 57 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 7.0 | 82 |
| Vocabulary | 4.3 | 69 | 6.6 | 72 |
| Reading Comprehension | 4.4 | 68 | 6.7 | 73 |
| Spelling | 4.7 | 72 | 7.0 | 74 |
| Capitalization | 5.0 | 79 | 7.5 | 80 |
| Punctuation | 5.2 | 81 | 7.5 | 81 |
| Language Usage | 4.3 | 62 | 7.1 | 74 |
| Map Reading | 4.4 | 73 | 7.1 | 83 |
| Graphs and Tables | 4.6 | 76 | 7.3 | 84 |
| Reference Materials | 4.5 | 79 | 6.8 | 73 |
| Math Concepts | 4.4 | 73 | 7.5 | 90 |
| Math Problem Solving | 4.4 | 79 | 6.8 | 81 |
| NUMBER TAKING ALL SUBTESTS | 28 | | 53 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 34 | 67 | 79 | 20 | 49 | 48 |
| | 5 | 34 | 66 | 78 | 19 | 60+ | 68 |
| Language Total | 3 | 34 | 70 | 83 | 19 | 56 | 62 |
| | 5 | 34 | 71 | 84 | 19 | 69+ | 82 |
| Math Total | 3 | 34 | 75 | 88 | 19 | 54 | 58 |
| | 5 | 34 | 76 | 89 | 19 | 73+ | 86 |
| Composite | 3 | 34 | 73 | 86 | 19 | 55 | 59 |
| | 5 | 34 | 72 | 85 | 19 | 67+ | 79 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.4 | 70 |
| Vocabulary | 4.4 | 72 | 6.4 | 67 |
| Reading Comprehension | 4.3 | 66 | 6.2 | 62 |
| Spelling | 4.7 | 72 | 6.6 | 67 |
| Capitalization | 5.1 | 81 | 7.2 | 75 |
| Punctuation | 5.4 | 84 | 6.9 | 72 |
| Language Usage | 4.7 | 70 | 6.7 | 67 |
| Map Reading | 4.4 | 73 | 6.2 | 63 |
| Graphs and Tables | 4.5 | 74 | 6.7 | 74 |
| Reference Materials | 4.4 | 76 | 6.5 | 68 |
| Math Concepts | 4.2 | 66 | 6.3 | 65 |
| Math Problem Solving | 4.1 | 66 | 6.0 | 59 |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 70 | | 65 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 50 | 67 | 79 | 30 | 61 | 70 |
| | 5 | 50 | 57- | 63 | 15 | 54 | 57 |
| Language Total | 3 | 50 | 73 | 86 | 30 | 60 | 69 |
| | 5 | 50 | 65 | 76 | 15 | 60 | 69 |
| Math Total | 3 | 50 | 73 | 86 | 30 | 58 | 65 |
| | 5 | 50 | 58- | 65 | 15 | 59 | 67 |
| Composite | 3 | 50 | 72 | 85 | 30 | 60 | 68 |
| | 5 | 50 | 62- | 72 | 15 | 58 | 64 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.7 | 76 |
| Vocabulary | 4.4 | 72 | 6.4 | 67 |
| Reading Comprehension | 4.7 | 76 | 6.4 | 67 |
| Spelling | 5.1 | 79 | 6.9 | 72 |
| Capitalization | 5.2 | 82 | 7.1 | 74 |
| Punctuation | 5.3 | 83 | 7.0 | 73 |
| Language Usage | 5.0 | 76 | 6.9 | 71 |
| Map Reading | 4.8 | 83 | 6.5 | 71 |
| Graphs and Tables | 4.9 | 83 | 6.9 | 78 |
| Reference Materials | 4.6 | 81 | 6.7 | 71 |
| Math Concepts | 4.4 | 73 | 7.0 | 87 |
| Math Problem Solving | 4.5 | 82 | 6.2 | 65 |
| NUMBER TAKING ALL SUBTESTS | 97 | | 95 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 69 | 57 | 63 | 37 | 52 | 54 |
| Comprehension | 5 | 69 | 61 | 70 | 31 | 58+ | 65 |
| Language Total | 3 | 69 | 66 | 77 | 37 | 59 | 67 |
| | 5 | 69 | 65 | 76 | 31 | 66+ | 78 |
| Math Total | 3 | 69 | 60 | 68 | 37 | 55 | 60 |
| | 5 | 69 | 67+ | 79 | 31 | 64+ | 75 |
| Composite | 3 | 66 | 63 | 73 | 37 | 57 | 63 |
| | 5 | 66 | 66 | 78 | 29 | 65+ | 76 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.7 | 97 | 6.9 | 80 |
| Vocabulary | 5.9 | 98 | 6.6 | 72 |
| Reading Comprehension | 5.2 | 86 | 6.7 | 73 |
| Spelling | 5.8 | 90 | 7.0 | 74 |
| Capitalization | 6.5 | 98 | 7.4 | 78 |
| Punctuation | 6.5 | 97 | 7.3 | 78 |
| Language Usage | 5.7 | 88 | 7.0 | 72 |
| Map Reading | 5.9 | 96 | 6.9 | 79 |
| Graphs and Tables | 5.7 | 93 | 7.3 | 84 |
| Reference Materials | 5.4 | 94 | 6.9 | 75 |
| Math Concepts | 5.3 | 93 | 7.0 | 81 |
| Math Problem Solving | 5.6 | 97 | 6.9 | 83 |
| NUMBER TAKING ALL SUBTESTS | | 29 | 48 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 40 | 67 | 79 | 11 | 60 | 68 |
| | 5 | 40 | 63 | 73 | | | |
| Language Total | 3 | 40 | 79 | 92 | 11 | 71 | 84 |
| | 5 | 40 | 70 | 83 | | | |
| Math Total | 3 | 40 | 83 | 94 | 11 | 75 | 88 |
| | 5 | 40 | 72- | 85 | | | |
| Composite | 3 | 40 | 81 | 93 | 11 | 70 | 83 |
| | 5 | 40 | 69- | 82 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.1 | 62 |
| Vocabulary | 4.3 | 69 | 5.9 | 54 |
| Reading Comprehension | 4.7 | 76 | 6.1 | 60 |
| Spelling | 4.9 | 76 | 6.2 | 60 |
| Capitalization | 5.3 | 84 | 6.6 | 66 |
| Punctuation | 5.9 | 90 | 7.0 | 73 |
| Language Usage | 4.8 | 72 | 6.5 | 63 |
| Map Reading | 4.8 | 83 | 6.2 | 63 |
| Graphs and Tables | 5.0 | 84 | 6.3 | 65 |
| Reference Materials | 4.5 | 79 | 6.2 | 61 |
| Math Concepts | 4.6 | 79 | 5.8 | 52 |
| Math Problem Solving | 4.6 | 85 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | | 28 | 30 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 23 | 50 | 50 | 10 | 56 | 61 |
| | 5 | 23 | 53 | 55 | | | |
| Language Total | 3 | 23 | 58 | 64 | 10 | 63 | 73 |
| | 5 | 23 | 60 | 69 | | | |
| Math Total | 3 | 23 | 54 | 58 | 10 | 59 | 66 |
| | 5 | 23 | 52 | 54 | | | |
| Composite | 3 | 23 | 55 | 59 | 10 | 59 | 66 |
| | 5 | 23 | 56 | 61 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.0 | 88 | 6.9 | 80 |
| Vocabulary | 4.9 | 84 | 6.7 | 74 |
| Reading Comprehension | 5.0 | 83 | 6.6 | 71 |
| Spelling | 5.6 | 87 | 7.4 | 80 |
| Capitalization | 5.2 | 82 | 7.2 | 75 |
| Punctuation | 5.3 | 83 | 7.0 | 73 |
| Language Usage | 5.2 | 80 | 7.2 | 76 |
| Map Reading | 4.9 | 84 | 6.9 | 79 |
| Graphs and Tables | 5.2 | 88 | 7.2 | 83 |
| Reference Materials | 4.8 | 85 | 6.9 | 75 |
| Math Concepts | 4.8 | 84 | 7.0 | 81 |
| Math Problem Solving | 4.5 | 82 | 6.8 | 81 |
| NUMBER TAKING ALL SUBTESTS | 68 | | 81 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 60 | 63 | 73 | 13 | 62 | 71 |
| Comprehension | 5 | 60 | 63 | 73 | 21 | 59 | 67 |
| Language Total | 3 | 60 | 73 | 86 | 13 | 65 | 76 |
| | 5 | 60 | 69 | 82 | 20 | 66 | 78 |
| Math Total | 3 | 61 | 67 | 79 | 13 | 62 | 71 |
| | 5 | 61 | 73 | 86 | 21 | 65 | 76 |
| Composite | 3 | 60 | 69 | 82 | 13 | 65 | 76 |
| | 5 | 60 | 70 | 83 | 20 | 67 | 79 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.6 | 74 |
| Vocabulary | 4.4 | 72 | 6.5 | 70 |
| Reading Comprehension | 4.3 | 66 | 6.5 | 64 |
| Spelling | 4.9 | 76 | 6.8 | 71 |
| Capitalization | 4.9 | 77 | 6.8 | 69 |
| Punctuation | 5.2 | 81 | 7.1 | 75 |
| Language Usage | 4.6 | 68 | 7.0 | 72 |
| Map Reading | 4.5 | 76 | 6.5 | 71 |
| Graphs and Tables | 4.5 | 74 | 7.1 | 81 |
| Reference Materials | 4.3 | 72 | 6.6 | 70 |
| Math Concepts | 4.3 | 69 | 6.6 | 72 |
| Math Problem Solving | 4.3 | 75 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | | 50 | 63 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 52 | 63 | 73 | 10 | 48 | 46 |
| Comprehension | 5 | 52 | 58 | 64 | 11 | 61+ | 70 |
| Language Total | 3 | 52 | 70 | 83 | 10 | 55 | 59 |
| | 5 | 52 | 65 | 76 | 11 | 66+ | 78 |
| Math Total | 3 | 52 | 65 | 76 | 10 | 52 | 54 |
| | 5 | 52 | 63 | 73 | 11 | 71+ | 84 |
| Composite | 3 | 52 | 68 | 81 | 10 | 51 | 51 |
| | 5 | 52 | 63 | 73 | 11 | 68+ | 80 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.3 | 38 | 5.9 | 56 |
| Vocabulary | 3.2 | 35 | 5.5 | 44 |
| Reading Comprehension | 3.0 | 29 | 5.5 | 44 |
| Spelling | 3.5 | 44 | 6.3 | 62 |
| Capitalization | 3.4 | 42 | 6.1 | 58 |
| Punctuation | 3.5 | 44 | 6.1 | 57 |
| Language Usage | 3.0 | 33 | 6.0 | 55 |
| Map Reading | 3.3 | 36 | 5.8 | 52 |
| Graphs and Tables | 3.1 | 32 | 5.9 | 55 |
| Reference Materials | 3.4 | 39 | 5.7 | 49 |
| Math Concepts | 3.3 | 34 | 5.8 | 52 |
| Math Problem Solving | 3.2 | 33 | 5.4 | 41 |
| NUMBER TAKING ALL SUBTESTS | | 16 | 26 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 19 | 58 | 65 | 21 | 59 | 67 |
| Comprehension | 5 | 19 | 58 | 65 | 10 | 28- | 15 |
| Language Total | 3 | 19 | 63 | 73 | 21 | 66 | 78 |
| | 5 | 19 | 60 | 68 | | | |
| Math Total | 3 | 19 | 61 | 70 | 21 | 58 | 64 |
| | 5 | 19 | 58 | 64 | 10 | 32- | 20 |
| Composite | 3 | 19 | 63 | 73 | 21 | 62 | 72 |
| | 5 | 19 | 59 | 66 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.4 | 70 |
| Vocabulary | 4.5 | 75 | 6.2 | 62 |
| Reading Comprehension | 4.7 | 76 | 6.2 | 62 |
| Spelling | 5.1 | 79 | 6.4 | 64 |
| Capitalization | 5.3 | 84 | 6.7 | 67 |
| Punctuation | 5.7 | 88 | 6.5 | 65 |
| Language Usage | 5.4 | 76 | 6.7 | 67 |
| Map Reading | 4.7 | 81 | 6.4 | 68 |
| Graphs and Tables | 5.0 | 84 | 6.5 | 69 |
| Reference Materials | 4.5 | 79 | 6.4 | 66 |
| Math Concepts | 4.6 | 79 | 6.5 | 70 |
| Math Problem Solving | 4.4 | 79 | 6.2 | 65 |
| NUMBER TAKING ALL SUBTESTS | 78 | | 107 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978. (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 67 | 57 | 63 | 41 | 52 | 54 |
| | 5 | 67 | 55 | 60 | 40 | 60+ | 68 |
| Language Total | 3 | 65 | 64 | 74 | 41 | 61 | 70 |
| | 5 | 65 | 59 | 66 | 40 | 65 | 76 |
| Math Total | 3 | 67 | 61 | 70 | 41 | 58 | 65 |
| | 5 | 67 | 61 | 70 | 40 | 64 | 75 |
| Composite | 3 | 65 | 62 | 71 | 41 | 57 | 63 |
| | 5 | 65 | 59 | 67 | 40 | 64+ | 75 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | 5.7 | 51 |
| Vocabulary | 3.9 | 55 | 5.6 | 47 |
| Reading Comprehension | 3.9 | 55 | 5.5 | 44 |
| Spelling | 4.6 | 70 | 6.1 | 58 |
| Capitalization | 4.2 | 62 | 5.7 | 50 |
| Punctuation | 4.3 | 65 | 5.9 | 54 |
| Language Usage | 4.2 | 60 | 5.9 | 53 |
| Map Reading | 4.0 | 60 | 5.9 | 55 |
| Graphs and Tables | 4.2 | 65 | 5.7 | 49 |
| Reference Materials | 4.0 | 61 | 6.0 | 57 |
| Math Concepts | 3.8 | 52 | 5.4 | 41 |
| Math Problem Solving | 3.8 | 53 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 59 | | 53 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 45 | 50 | 50 | 30 | 38 | 28 |
| Comprehension | 5 | 45 | 49 | 48 | | | |
| Language Total | 3 | 45 | 56 | 61 | 30 | 45 | 41 |
| | 5 | 45 | 55 | 60 | | | |
| Math Total | 3 | 44 | 50 | 50 | 30 | 45 | 41 |
| | 5 | 44 | 52 | 53 | | | |
| Composite | 3 | 44 | 54 | 57 | 30 | 42 | 36 |
| | 5 | 44 | 53 | 56 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.1 | 90 | 7.4 | 89 |
| Vocabulary | 4.8 | 82 | 7.1 | 82 |
| Reading Comprehension | 4.9 | 81 | 6.8 | 76 |
| Spelling | 5.5 | 86 | 7.7 | 85 |
| Capitalization | 6.1 | 95 | 8.4 | 92 |
| Punctuation | 5.8 | 89 | 8.1 | 89 |
| Language Usage | 5.3 | 81 | 7.9 | 87 |
| Map Reading | 4.9 | 84 | 7.5 | 88 |
| Graphs and Tables | 5.0 | 84 | 7.9 | 91 |
| Reference Materials | 4.9 | 87 | 7.4 | 84 |
| Math Concepts | 5.1 | 91 | 7.6 | 91 |
| Math Problem Solving | 5.1 | 93 | 7.2 | 88 |
| NUMBER TAKING ALL SUBTESTS | | 28 | | 48 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 36 | 66 | 78 | | | |
| | 5 | 36 | 64 | 75 | 12 | 68 | 80 |
| Language Total | 3 | 36 | 77 | 90 | | | |
| | 5 | 36 | 80 | 92 | 12 | 78 | 91 |
| Math Total | 3 | 36 | 71 | 84 | | | |
| | 5 | 36 | 79 | 91 | 12 | 81 | 93 |
| Composite | 3 | 36 | 74 | 87 | | | |
| | 5 | 36 | 76 | 89 | 12 | 78 | 91 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.7 | 76 |
| Vocabulary | 4.1 | 62 | 6.8 | 76 |
| Reading Comprehension | 4.4 | 68 | 6.4 | 67 |
| Spelling | 4.2 | 62 | 6.9 | 72 |
| Capitalization | 4.6 | 71 | 6.7 | 67 |
| Punctuation | 4.3 | 65 | 7.0 | 73 |
| Language Usage | 4.2 | 60 | 7.1 | 74 |
| Map Reading | 3.7 | 49 | 6.3 | 66 |
| Graphs and Tables | 4.6 | 76 | 6.4 | 67 |
| Reference Materials | 4.1 | 65 | 6.7 | 71 |
| Math Concepts | 3.7 | 49 | 6.8 | 77 |
| Math Problem Solving | 4.0 | 62 | 6.6 | 77 |
| NUMBER TAKING ALL SUBTESTS | | 26 | 23 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| | | | | | | | |
| Reading | 3 | 16 | 62 | 72 | 11 | 57 | 63 |
| Comprehension | 5 | 16 | 62 | 71 | | | |
| Language Total | 3 | 16 | 60 | 69 | 11 | 58 | 64 |
| | 5 | 16 | 65+ | 76 | | | |
| Math Total | 3 | 16 | 66 | 77 | 11 | 66 | 78 |
| | 5 | 16 | 69 | 82 | | | |
| Composite | 3 | 16 | 64 | 75 | 11 | 62 | 72 |
| | 5 | 16 | 67 | 79 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.4 | 42 | 5.0 | 32 |
| Vocabulary | 3.4 | 41 | 5.0 | 33 |
| Reading Comprehension | 3.5 | 44 | 4.9 | 30 |
| Spelling | 3.5 | 44 | 5.3 | 41 |
| Capitalization | 3.3 | 39 | 5.2 | 39 |
| Punctuation | 3.7 | 49 | 5.2 | 39 |
| Language Usage | 3.4 | 42 | 5.2 | 40 |
| Map Reading | 3.4 | 39 | 5.0 | 31 |
| Graphs and Tables | 3.4 | 40 | 5.2 | 37 |
| Reference Materials | 3.5 | 43 | 5.4 | 41 |
| Math Concepts | 3.4 | 38 | 5.1 | 34 |
| Math Problem Solving | 3.2 | 33 | 5.1 | 34 |
| NUMBER TAKING ALL SUBTESTS | 60 | | 68 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 50 | 44 | 38 | 28 | 42 | 36 |
| Comprehension | 5 | 50 | 37 | 27 | 20 | 38 | 29 |
| Language Total | 3 | 50 | 48 | 47 | 28 | 43 | 37 |
| | 5 | 50 | 44 | 38 | 18 | 39 | 30 |
| Math Total | 3 | 50 | 40 | 31 | 28 | 37 | 27 |
| | 5 | 50 | 39 | 30 | 21 | 42 | 36 |
| Composite | 3 | 50 | 43 | 37 | 28 | 39 | 30 |
| | 5 | 50 | 39 | 30 | 18 | 36 | 25 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.2 | 64 |
| Vocabulary | 4.5 | 75 | 6.0 | 57 |
| Reading Comprehension | 4.5 | 71 | 6.1 | 60 |
| Spelling | 5.1 | 79 | 6.5 | 65 |
| Capitalization | 5.1 | 81 | 6.5 | 64 |
| Punctuation | 5.7 | 88 | 6.8 | 70 |
| Language Usage | 4.9 | 74 | 6.8 | 69 |
| Map Reading | 4.6 | 78 | 6.1 | 61 |
| Graphs and Tables | 4.9 | 83 | 6.8 | 76 |
| Reference Materials | 4.6 | 81 | 6.1 | 59 |
| Math Concepts | 4.6 | 79 | 6.0 | 57 |
| Math Problem Solving | 4.4 | 79 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 48 | 49 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 31 | 59 | 66 | 20 | 58 | 65 |
| Comprehension | 5 | 31 | 55 | 60 | 18 | 56 | 61 |
| Language Total | 3 | 31 | 72 | 85 | 20 | 65 | 76 |
| | 5 | 31 | 64 | 74 | 18 | 56 | 62 |
| Math Total | 3 | 31 | 66 | 78 | 19 | 59 | 67 |
| | 5 | 31 | 54 | 58 | 18 | 57 | 63 |
| Composite | 3 | 30 | 69 | 82 | 19 | 63 | 73 |
| | 5 | 30 | 58 | 65 | 18 | 57 | 63 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | 6.7 | 76 |
| Vocabulary | 4.3 | 69 | 6.5 | 70 |
| Reading Comprehension | 4.3 | 66 | 6.5 | 69 |
| Spelling | 4.7 | 72 | 6.6 | 67 |
| Capitalization | 5.1 | 81 | 7.0 | 72 |
| Punctuation | 5.6 | 87 | 6.8 | 70 |
| Language Usage | 4.7 | 70 | 6.6 | 65 |
| Map Reading | 4.6 | 78 | 6.7 | 75 |
| Graphs and Tables | 4.9 | 83 | 6.9 | 78 |
| Reference Materials | 4.4 | 76 | 6.9 | 75 |
| Math Concepts | 4.3 | 69 | 6.7 | 75 |
| Math Problem Solving | 4.3 | 75 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | | 72 | 103 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 64 | 68 | 80 | 22 | 57 | 63 |
| Comprehension | 5 | 64 | 64 | 74 | 40 | 54 | 57 |
| Language Total | 3 | 65 | 74 | 87 | 22 | 64 | 74 |
| | 5 | 65 | 65 | 76 | 40 | 60 | 68 |
| Math Total | 3 | 65 | 70 | 83 | 22 | 56 | 62 |
| | 5 | 65 | 68 | 81 | 39 | 60 | 69 |
| Composite | 3 | 63 | 73 | 86 | 22 | 59 | 66 |
| | 5 | 63 | 67 | 79 | 38 | 60 | 69 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.9 | 58 | 6.5 | 72 |
| Vocabulary | 3.8 | 52 | 6.4 | 67 |
| Reading Comprehension | 3.9 | 55 | 6.3 | 64 |
| Spelling | 4.1 | 59 | 6.8 | 71 |
| Capitalization | 4.3 | 64 | 6.9 | 71 |
| Punctuation | 4.1 | 60 | 7.3 | 78 |
| Language Usage | 3.9 | 54 | 6.6 | 65 |
| Map Reading | 3.8 | 53 | 6.1 | 61 |
| Graphs and Tables | 4.1 | 61 | 6.5 | 69 |
| Reference Materials | 3.7 | 49 | 6.6 | 70 |
| Math Concepts | 3.7 | 49 | 6.2 | 62 |
| Math Problem Solving | 3.6 | 46 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | | 35 | 24 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 16 | 66 | 78 | 11 | 47 | 45 |
| Comprehension | 5 | 16 | 56 | 62 | | | |
| Language Total | 3 | 16 | 73 | 86 | 11 | 51 | 52 |
| | 5 | 16 | 65 | 76 | | | |
| Math Total | 3 | 16 | 59 | 67 | 11 | 46 | 42 |
| | 5 | 16 | 57 | 63 | | | |
| Composite | 3 | 16 | 67 | 79 | 11 | 47 | 45 |
| | 5 | 16 | 61 | 70 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.3 | 71 | 5.9 | 56 |
| Vocabulary | 4.1 | 62 | 5.6 | 47 |
| Reading Comprehension | 3.9 | 55 | 5.7 | 50 |
| Spelling | 4.6 | 70 | 6.4 | 64 |
| Capitalization | 5.2 | 82 | 6.2 | 59 |
| Punctuation | 5.7 | 88 | 6.4 | 63 |
| Language Usage | 4.5 | 66 | 5.8 | 51 |
| Map Reading | 4.0 | 60 | 5.9 | 55 |
| Graphs and Tables | 4.8 | 81 | 6.2 | 62 |
| Reference Materials | 4.3 | 72 | 5.7 | 49 |
| Math Concepts | 4.0 | 59 | 6.0 | 57 |
| Math Problem Solving | 4.2 | 70 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 34 | 32 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 20 | 54 | 57 | 19 | 50 | 50 |
| | 5 | 20 | 53 | 56 | 14 | 43 | 37 |
| Language Total | 3 | 20 | 66 | 78 | 19 | 62 | 72 |
| | 5 | 20 | 59 | 66 | 12 | 51 | 52 |
| Math Total | 3 | 20 | 61 | 70 | 19 | 55 | 59 |
| | 5 | 20 | 57 | 63 | 12 | 50 | 50 |
| Composite | 3 | 20 | 63 | 73 | 18 | 61 | 70 |
| | 5 | 20 | 55 | 60 | 12 | 51 | 51 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.5 | 76 | | |
| Vocabulary | 3.8 | 52 | | |
| Reading Comprehension | 4.1 | 60 | | |
| Spelling | 4.9 | 76 | | |
| Capitalization | 4.0 | 79 | | |
| Punctuation | 5.3 | 83 | | |
| Language Usage | 4.4 | 64 | | |
| Map Reading | 4.7 | 81 | | |
| Graphs and Tables | 4.9 | 83 | | |
| Reference Materials | 4.2 | 69 | | |
| Math Concepts | 4.3 | 69 | | |
| Math Problem Solving | 4.4 | 79 | | |
| NUMBER TAKING ALL SUBTESTS | | 39 | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 7.5 | 90 |
| Vocabulary | 4.6 | 78 | 7.1 | 82 |
| Reading Comprehension | 4.7 | 76 | 7.3 | 85 |
| Spelling | 5.1 | 79 | 7.1 | 76 |
| Capitalization | 4.8 | 75 | 8.5 | 93 |
| Punctuation | 5.6 | 87 | 8.1 | 89 |
| Language Usage | 4.9 | 74 | 7.5 | 81 |
| Map Reading | 4.8 | 83 | 8.1 | 94 |
| Graphs and Tables | 5.3 | 89 | 7.7 | 89 |
| Reference Materials | 4.5 | 79 | 7.2 | 81 |
| Math Concepts | 5.0 | 89 | 7.9 | 94 |
| Math Problem Solving | 5.1 | 93 | 7.2 | 88 |
| NUMBER TAKING ALL SUBTESTS | | 39 | 44 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 35 | 65 | 76 | 14 | 51 | 51 |
| | 5 | 35 | 70 | 83 | | | |
| Language Total | 3 | 35 | 71 | 84 | 14 | 62 | 72 |
| | 5 | 35 | 76+ | 89 | | | |
| Math Total | 3 | 35 | 78 | 91 | 14 | 62 | 72 |
| | 5 | 35 | 80+ | 92 | | | |
| Composite | 3 | 35 | 75 | 86 | 14 | 59 | 67 |
| | 5 | 35 | 77 | 90 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | ** | ** |
| Vocabulary | 4.6 | 78 | 6.5 | 70 |
| Reading Comprehension | 4.5 | 71 | ** | ** |
| Spelling | 5.4 | 84 | 7.2 | 77 |
| Capitalization | 5.1 | 81 | 7.2 | 75 |
| Punctuation | 5.2 | 81 | 7.0 | 73 |
| Language Usage | 5.0 | 76 | 7.1 | 74 |
| Map Reading | 4.6 | 78 | 6.8 | 77 |
| Graphs and Tables | 4.9 | 83 | 6.6 | 72 |
| Reference Materials | 4.5 | 79 | 6.6 | 70 |
| Math Concepts | 4.4 | 73 | 6.1 | 60 |
| Math Problem Solving | 4.3 | 75 | 6.2 | 65 |
| NUMBER TAKING ALL SUBTESTS | 38 | | 41 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | ** | ** | ** | ** | ** | ** |
| | 5 | ** | ** | ** | | | |
| Language Total | 3 | 33 | 69 | 82 | 16 | 61 | 70 |
| | 5 | 33 | 66 | 78 | | | |
| Math Total | 3 | 33 | 62 | 72 | 17 | 52 | 54 |
| | 5 | 33 | 59 | 66 | | | |
| Composite | 3 | ** | ** | ** | ** | ** | ** |
| | 5 | ** | ** | ** | | | |

**Reading Comprehension and Composite results are not reported for Grade 5 because of an irregularity in the administration of the Reading Comprehension test in that grade.

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.7 | 52 | 6.1 | 62 |
| Vocabulary | 3.8 | 52 | 5.8 | 52 |
| Reading Comprehension | 3.7 | 49 | 5.9 | 55 |
| Spelling | 4.6 | 70 | 6.5 | 65 |
| Capitalization | 3.8 | 52 | 6.4 | 62 |
| Punctuation | 3.8 | 52 | 6.3 | 61 |
| Language Usage | 3.4 | 42 | 6.2 | 58 |
| Map Reading | 3.7 | 49 | 6.0 | 58 |
| Graphs and Tables | 3.9 | 55 | 6.2 | 62 |
| Reference Materials | 3.8 | 53 | 6.1 | 59 |
| Math Concepts | 3.7 | 49 | 5.9 | 54 |
| Math Problem Solving | 3.5 | 42 | 6.0 | 59 |
| NUMBER TAKING ALL SUBTESTS | | 45 | 88 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 27 | 60 | 68 | 20 | 49 | 49 |
| Comprehension | 5 | 27 | 58 | 65 | 62 | 49 | 49 |
| Language Total | 3 | 27 | 61 | 70 | 20 | 58 | 65 |
| | 5 | 27 | 57 | 63 | 62 | 57 | 63 |
| Math Total | 3 | 27 | 59 | 66 | 20 | 47 | 45 |
| | 5 | 27 | 60 | 68 | 62 | 52 | 54 |
| Composite | 3 | 27 | 61 | 70 | 20 | 51 | 51 |
| | 5 | 27 | 59 | 67 | 61 | 53 | 56 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.6 | 74 |
| Vocabulary | 4.6 | 78 | 6.5 | 70 |
| Reading Comprehension | 4.6 | 74 | 6.6 | 71 |
| Spelling | 4.9 | 76 | 6.4 | 64 |
| Capitalization | 4.6 | 71 | 6.6 | 66 |
| Punctuation | 5.1 | 80 | 6.6 | 67 |
| Language Usage | 4.9 | 74 | 6.9 | 71 |
| Map Reading | 4.6 | 78 | 6.9 | 79 |
| Graphs and Tables | 5.1 | 86 | 6.8 | 76 |
| Reference Materials | 4.6 | 81 | 6.8 | 73 |
| Math Concepts | 4.4 | 73 | 6.7 | 75 |
| Math Problem Solving | 4.3 | 75 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | | 61 | 66 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 49 | 62 | 72 | 22 | 52 | 54 |
| Comprehension | 5 | 49 | 61 | 70 | 17 | 62+ | 72 |
| Language Total | 3 | 49 | 60 | 69 | 22 | 51 | 52 |
| | 5 | 49 | 59 | 67 | 17 | 65+ | 76 |
| Math Total | 3 | 49 | 65 | 76 | 22 | 53 | 55 |
| | 5 | 49 | 64 | 75 | 17 | 67+ | 79 |
| Composite | 3 | 49 | 63 | 73 | 22 | 52 | 53 |
| | 5 | 49 | 64 | 74 | 17 | 67+ | 79 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.6 | 74 |
| Vocabulary | 4.5 | 75 | 6.4 | 67 |
| Reading Comprehension | 4.6 | 74 | 6.4 | 67 |
| Spelling | 5.0 | 78 | 6.6 | 67 |
| Capitalization | 5.0 | 79 | 7.0 | 72 |
| Punctuation | 4.9 | 77 | 6.9 | 72 |
| Language Usage | 5.1 | 78 | 7.0 | 72 |
| Map Reading | 4.6 | 78 | 6.7 | 75 |
| Graphs and Tables | 5.0 | 84 | 7.1 | 81 |
| Reference Materials | 4.4 | 76 | 6.5 | 68 |
| Math Concepts | 4.3 | 69 | 6.6 | 72 |
| Math Problem Solving | 4.3 | 75 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | 67 | | 71 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 57 | 57 | 63 | 21 | 53 | 56 |
| Comprehension | 5 | 57 | 60 | 68 | 15 | 61+ | 70 |
| Language Total | 3 | 56 | 63 | 73 | 21 | 57 | 63 |
| | 5 | 56 | 64 | 75 | 15 | 66+ | 78 |
| Math Total | 3 | 57 | 62 | 72 | 21 | 56 | 61 |
| | 5 | 57 | 64 | 75 | 15 | 62 | 72 |
| Composite | 3 | 56 | 62 | 72 | 21 | 55 | 60 |
| | 5 | 56 | 64 | 75 | 15 | 65+ | 76 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.0 | 88 | 6.6 | 74 |
| Vocabulary | 4.9 | 84 | 6.4 | 67 |
| Reading Comprehension | 5.2 | 86 | 6.3 | 64 |
| Spelling | 5.7 | 89 | 6.9 | 72 |
| Capitalization | 5.8 | 91 | 6.9 | 71 |
| Punctuation | 5.8 | 89 | 6.9 | 72 |
| Language Usage | 5.1 | 78 | 6.6 | 65 |
| Map Reading | 4.6 | 78 | 6.6 | 73 |
| Graphs and Tables | 4.4 | 71 | 6.9 | 73 |
| Reference Materials | 4.4 | 76 | 6.3 | 64 |
| Math Concepts | 4.6 | 79 | 6.8 | 77 |
| Math Problem Solving | 4.7 | 87 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | 24 | | 53 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 42 | 62 | 71 | 16 | 58 | 65 |
| Comprehension | 5 | 42 | 60 | 68 | 11 | 48 | 46 |
| Language Total | 3 | 42 | 69 | 82 | 16 | 67 | 79 |
| | 5 | 42 | 66 | 78 | 11 | 57 | 63 |
| Math Total | 3 | 42 | 67 | 79 | 16 | 58 | 65 |
| | 5 | 42 | 68 | 80 | 11 | 63 | 73 |
| Composite | 3 | 42 | 66 | 78 | 16 | 61 | 70 |
| | 5 | 42 | 66 | 77 | 11 | 55 | 59 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.9 | 80 |
| Vocabulary | 4.4 | 72 | 6.7 | 74 |
| Reading Comprehension | 4.5 | 71 | 6.5 | 69 |
| Spelling | 5.0 | 78 | 6.8 | 71 |
| Capitalization | 4.8 | 75 | 7.7 | 82 |
| Punctuation | 5.6 | 87 | 7.2 | 77 |
| Language Usage | 4.5 | 66 | 7.4 | 79 |
| Map Reading | 4.7 | 81 | 7.1 | 83 |
| Graphs and Tables | 4.6 | 76 | 7.1 | 81 |
| Reference Materials | 4.3 | 72 | 6.8 | 75 |
| Math Concepts | 4.1 | 63 | 6.8 | 77 |
| Math Problem Solving | 4.4 | 79 | 6.7 | 79 |
| NUMBER TAKING ALL SUBTESTS | | 32 | | 22 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978* (GRADE 3) AND 1980* (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 18 | 62 | 71 | 18 | 53 | 56 |
| | 5 | 18 | 59 | 67 | | | |
| Language Total | 3 | 18 | 69 | 82 | 18 | 63 | 73 |
| | 5 | 18 | 69 | 82 | | | |
| Math Total | 3 | 18 | 63 | 73 | 18 | 59 | 66 |
| | 5 | 18 | 66 | 77 | | | |
| Composite | 3 | 18 | 66 | 78 | 18 | 60 | 69 |
| | 5 | 18 | 66 | 78 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.3 | 71 | 6.4 | 70 |
| Vocabulary | 4.2 | 65 | 6.4 | 67 |
| Reading Comprehension | 4.2 | 63 | 6.3 | 64 |
| Spelling | 5.0 | 78 | 6.4 | 64 |
| Capitalization | 4.6 | 71 | 6.8 | 69 |
| Punctuation | 4.9 | 77 | 6.3 | 61 |
| Language Usage | 4.5 | 66 | 6.7 | 67 |
| Map Reading | 4.2 | 67 | 6.5 | 71 |
| Graphs and Tables | 4.3 | 68 | 6.6 | 72 |
| Reference Materials | 4.1 | 63 | 6.3 | 64 |
| Math Concepts | 4.0 | 59 | 6.3 | 65 |
| Math Problem Solving | 4.0 | 62 | 6.0 | 59 |
| NUMBER TAKING ALL SUBTESTS | | 59 | 79 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 49 | 62 | 72 | 26 | 55 | 60 |
| | 5 | 49 | 64 | 75 | 30 | 49 | 48 |
| Language Total | 3 | 49 | 71 | 84 | 25 | 63 | 73 |
| | 5 | 49 | 64 | 75 | 30 | 53 | 56 |
| Math Total | 3 | 46 | 65 | 76 | 25 | 55 | 59 |
| | 5 | 46 | 65 | 76 | 30 | 49 | 48 |
| Composite | 3 | 45 | 69 | 82 | 25 | 60 | 68 |
| | 5 | 45 | 66 | 78 | 30 | 50 | 50 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|-----------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | | | 5.7 | 51 |
| Vocabulary | | | 5.8 | 52 |
| Reading Comprehension | | | 5.7 | 50 |
| Spelling | | | 5.9 | 54 |
| Capitalization | | | 5.9 | 54 |
| Punctuation | | | 5.8 | 51 |
| Language Usage | | | 5.8 | 51 |
| Map Reading | | | 5.7 | 49 |
| Graphs and Tables | | | 5.9 | 55 |
| Reference Materials | | | 5.9 | 54 |
| Math Concepts | | | 5.5 | 44 |
| Math Problem Solving | | | 5.6 | 47 |

NUMBER TAKING ALL SUBTESTS

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.4 | 73 | 5.7 | 51 |
| Vocabulary | 4.3 | 69 | 5.5 | 44 |
| Reading Comprehension | 4.2 | 63 | 5.6 | 47 |
| Spelling | 5.2 | 81 | 6.2 | 60 |
| Capitalization | 4.9 | 77 | 5.8 | 52 |
| Punctuation | 5.1 | 80 | 5.8 | 51 |
| Language Usage | 4.6 | 68 | 5.5 | 46 |
| Map Reading | 4.7 | 81 | 5.7 | 49 |
| Graphs and Tables | 4.7 | 79 | 6.0 | 57 |
| Reference Materials | 4.4 | 76 | 5.8 | 52 |
| Math Concepts | 4.2 | 66 | 5.5 | 44 |
| Math Problem Solving | 4.1 | 66 | 5.4 | 41 |
| NUMBER TAKING ALL SUBTESTS | 31 | | 30 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 17 | 54 | 58 | 21 | 57 | 63 |
| | 5 | 17 | 50 | 50 | 13 | 46- | 43 |
| Language Total | 3 | 17 | 57 | 63 | 21 | 60 | 69 |
| | 5 | 17 | 55 | 60 | 13 | 47- | 44 |
| Math Total | 3 | 17 | 47 | 44 | 21 | 43 | 37 |
| | 5 | 17 | 47 | 44 | 13 | 44 | 39 |
| Composite | 3 | 17 | 54 | 58 | 21 | 57 | 63 |
| | 5 | 17 | 52 | 53 | 13 | 45- | 41 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.3 | 71 | 6.0 | 59 |
| Vocabulary | 4.2 | 65 | 6.1 | 60 |
| Reading Comprehension | 4.3 | 66 | 5.9 | 55 |
| Spelling | 4.9 | 76 | 6.2 | 60 |
| Capitalization | 4.6 | 71 | 6.3 | 61 |
| Punctuation | 4.6 | 71 | 6.1 | 58 |
| Language Usage | 4.3 | 62 | 6.2 | 58 |
| Map Reading | 4.3 | 70 | 5.9 | 55 |
| Graphs and Tables | 4.5 | 74 | 5.9 | 55 |
| Reference Materials | 4.1 | 65 | 6.1 | 59 |
| Math Concepts | 4.0 | 59 | 6.1 | 60 |
| Math Problem Solving | 4.1 | 66 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 90 | 93 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 71 | 57 | 63 | 30 | 56 | 62 |
| Comprehension | 5 | 71 | 53 | 56 | 22 | 49 | 48 |
| Language Total | 3 | 71 | 61 | 70 | 30 | 55 | 59 |
| | 5 | 71 | 57 | 63 | 22 | 51 | 52 |
| Math Total | 3 | 71 | 56 | 62 | 30 | 51 | 52 |
| | 5 | 71 | 58 | 64 | 22 | 49 | 48 |
| Composite | 3 | 71 | 60 | 69 | 30 | 56 | 62 |
| | 5 | 71 | 56 | 62 | 22 | 51 | 51 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.0 | 88 | 7.1 | 84 |
| Vocabulary | 5.0 | 86 | 6.8 | 76 |
| Reading Comprehension | 4.8 | 78 | 6.9 | 78 |
| Spelling | 5.4 | 84 | 7.3 | 79 |
| Capitalization | 5.6 | 88 | 7.4 | 78 |
| Punctuation | 5.8 | 89 | 7.4 | 80 |
| Language Usage | 5.2 | 80 | 7.4 | 79 |
| Map Reading | 4.9 | 84 | 7.1 | 83 |
| Graphs and Tables | 5.2 | 88 | 7.5 | 87 |
| Reference Materials | 4.7 | 83 | 7.1 | 79 |
| Math Concepts | 4.9 | 87 | 7.3 | 87 |
| Math Problem Solving | 4.6 | 85 | 6.9 | 83 |
| NUMBER TAKING ALL SUBTESTS | | 75 | | 83 |

* Mean for the national norm group for the Composite score.

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 54 | 76 | 89 | 12 | 71 | 84 |
| Comprehension | 5 | 54 | 67 | 79 | 25 | 65 | 76 |
| Language Total | 3 | 54 | 85 | 95 | 12 | 74 | 87 |
| | 5 | 54 | 73 | 86 | 25 | 68 | 81 |
| Math Total | 3 | 57 | 81 | 93 | 12 | 74 | 87 |
| | 5 | 57 | 76 | 89 | 25 | 73 | 86 |
| Composite | 3 | 54 | 86 | 95 | 12 | 76 | 89 |
| | 5 | 54 | 74 | 87 | 25 | 70 | 83 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.5 | 72 |
| Vocabulary | 4.9 | 84 | 6.4 | 67 |
| Reading Comprehension | 4.9 | 81 | 6.5 | 69 |
| Spelling | 5.2 | 81 | 6.6 | 67 |
| Capitalization | 5.4 | 85 | 7.2 | 75 |
| Punctuation | 5.5 | 86 | 6.4 | 63 |
| Language Usage | 5.3 | 81 | 6.8 | 69 |
| Map Reading | 5.2 | 89 | 6.6 | 73 |
| Graphs and Tables | 5.2 | 88 | 6.8 | 76 |
| Reference Materials | 4.7 | 83 | 6.5 | 68 |
| Math Concepts | 4.3 | 69 | 6.4 | 67 |
| Math Problem Solving | 4.5 | 82 | 6.0 | 59 |
| NUMBER TAKING ALL SUBTESTS | 25 | | 34 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 13 | 62 | 71 | 10 | 58 | 65 |
| | 5 | 13 | 63 | 73 | 21 | 58 | 65 |
| Language Total | 3 | 13 | 68 | 81 | 10 | 74 | 87 |
| | 5 | 13 | 66 | 78 | 21 | 60- | 68 |
| Math Total | 3 | 13 | 64 | 75 | 10 | 71 | 84 |
| | 5 | 13 | 58 | 65- | 21 | 58- | 65 |
| Composite | 3 | 13 | 67 | 79 | 10 | 69 | 82 |
| | 5 | 13 | 65 | 76 | 21 | 61 | 70 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.0 | 88 | 6.6 | 74 |
| Vocabulary | 4.9 | 84 | 6.7 | 74 |
| Reading Comprehension | 4.9 | 81 | 6.5 | 69 |
| Spelling | 5.5 | 86 | 6.8 | 71 |
| Capitalization | 5.5 | 87 | 6.8 | 69 |
| Punctuation | 5.8 | 89 | 6.7 | 68 |
| Language Usage | 5.4 | 83 | 6.8 | 69 |
| Map Reading | 4.9 | 84 | 6.7 | 75 |
| Graphs and Tables | 5.2 | 88 | 6.9 | 78 |
| Reference Materials | 4.9 | 87 | 6.8 | 73 |
| Math Concepts | 4.6 | 79 | 6.6 | 72 |
| Math Problem Solving | 4.6 | 85 | 6.2 | 65 |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 67 | | 74 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 58 | 62 | 72 | 22 | 66 | 78 |
| Comprehension | 5 | 58 | 61 | 70 | 16 | 59 | 66 |
| Language Total | 3 | 58 | 67 | 79 | 22 | 67 | 79 |
| | 5 | 58 | 64 | 74 | 16 | 62 | 71 |
| Math Total | 3 | 58 | 67 | 79 | 23 | 69 | 82 |
| | 5 | 58 | 63 | 73 | 16 | 60 | 68 |
| Composite | 3 | 58 | 67 | 79 | 22 | 70 | 83 |
| | 5 | 58 | 66 | 77 | 16 | 63 | 73 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|------------------------|-----------------|------------------------|-----------------|
| | Grade Equivalent Score | Percentile Rank | Grade Equivalent Score | Percentile Rank |
| | (3.7)* | (52)* | (5.7)* | (51)* |
| COMPOSITE | 4.5 | 76 | | |
| Vocabulary | 4.2 | 65 | | |
| Reading Comprehension | 4.4 | 68 | | |
| Spelling | 4.8 | 74 | | |
| Capitalization | 5.0 | 79 | | |
| Punctuation | 5.5 | 86 | | |
| Language Usage | 4.6 | 68 | | |
| Map Reading | 4.3 | 70 | | |
| Graphs and Tables | 4.5 | 74 | | |
| Reference Materials | 4.5 | 79 | | |
| Math Concepts | 4.2 | 66 | | |
| Math Problem Solving | 4.2 | 70 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | | 46 | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.3 | 67 |
| Vocabulary | 4.4 | 72 | 6.2 | 62 |
| Reading Comprehension | 4.6 | 74 | 6.2 | 62 |
| Spelling | 5.3 | 83 | 6.6 | 67 |
| Capitalization | 5.6 | 88 | 6.9 | 71 |
| Punctuation | 5.5 | 86 | 6.5 | 65 |
| Language Usage | 4.8 | 72 | 6.6 | 65 |
| Map Reading | 4.9 | 84 | 6.0 | 58 |
| Graphs and Tables | 4.9 | 83 | 6.1 | 60 |
| Reference Materials | 4.8 | 85 | 6.4 | 66 |
| Math Concepts | 4.4 | 73 | 6.3 | 65 |
| Math Problem Solving | 4.5 | 82 | 6.2 | 65 |
| NUMBER TAKING ALL SUBTESTS | | 46 | 51 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 36 | 64 | 75 | 15 | 55 | 60 |
| Comprehension | 5 | 36 | 61 | 70 | 15 | 46 | 43 |
| Language Total | 3 | 36 | 71 | 84 | 15 | 63 | 73 |
| | 5 | 36 | 67 | 79 | 15 | 50 | 50 |
| Math Total | 3 | 36 | 71 | 84 | 15 | 65 | 76 |
| | 5 | 36 | 65 | 76 | 15 | 50 | 50 |
| Composite | 3 | 36 | 69 | 82 | 15 | 63 | 73 |
| | 5 | 36 | 65 | 76 | 15 | 47 | 44 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.6 | 74 |
| Vocabulary | 4.3 | 69 | 6.4 | 67 |
| Reading Comprehension | 4.5 | 71 | 6.3 | 64 |
| Spelling | 5.2 | 81 | 6.8 | 71 |
| Capitalization | 5.1 | 81 | 7.0 | 72 |
| Punctuation | 5.8 | 89 | 7.0 | 73 |
| Language Usage | 4.9 | 74 | 6.8 | 69 |
| Map Reading | 4.4 | 73 | 6.5 | 71 |
| Graphs and Tables | 4.8 | 81 | 7.0 | 79 |
| Reference Materials | 4.5 | 79 | 6.8 | 73 |
| Math Concepts | 4.4 | 73 | 6.5 | 70 |
| Math Problem Solving | 4.6 | 85 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | | 55 | 83 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 64 | 65 | 76 | 28 | 61 | 70 |
| | 5 | 64 | 60 | 69 | 17 | 52 | 53 |
| Language Total | 3 | 64 | 76 | 89 | 28 | 69 | 82 |
| | 5 | 64 | 68 | 81 | 17 | 55 | 59 |
| Math Total | 3 | 64 | 71 | 84 | 28 | 64 | 75 |
| | 5 | 64 | 65 | 76 | 17 | 59 | 66 |
| Composite | 3 | 64 | 72 | 85 | 28 | 66 | 77 |
| | 5 | 64 | 66 | 78 | 17 | 57 | 63 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.9 | 58 | 5.9 | 56 |
| Vocabulary | 3.8 | 52 | 5.8 | 52 |
| Reading Comprehension | 3.6 | 47 | 5.6 | 47 |
| Spelling | 4.5 | 68 | 5.8 | 52 |
| Capitalization | 4.5 | 68 | 6.7 | 67 |
| Punctuation | 4.7 | 73 | 6.3 | 61 |
| Language Usage | 3.7 | 49 | 6.0 | 55 |
| Map Reading | 3.9 | 56 | 6.1 | 61 |
| Graphs and Tables | 4.1 | 61 | 6.2 | 62 |
| Reference Materials | 3.8 | 53 | 6.1 | 59 |
| Math Concepts | 3.7 | 49 | 5.7 | 49 |
| Math Problem Solving | 3.8 | 53 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | 55 | | 49 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 39 | 56 | 62 | 26 | 46 | 42 |
| Comprehension | 5 | 39 | 49 | 48 | 10 | 46 | 43 |
| Language Total | 3 | 39 | 61 | 70 | 26 | 55 | 60 |
| | 5 | 39 | 57 | 63 | 10 | 54 | 57 |
| Math Total | 3 | 39 | 60 | 68 | 25 | 53 | 55 |
| | 5 | 39 | 55 | 59 | 10 | 42 | 36 |
| Composite | 3 | 39 | 59 | 67 | 25 | 52 | 54 |
| | 5 | 39 | 55 | 59 | 10 | 49 | 48 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|-----------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | | |
| Vocabulary | 3.7 | 49 | | |
| Reading Comprehension | 3.7 | 49 | | |
| Spelling | 4.5 | 68 | | |
| Capitalization | 4.5 | 68 | | |
| Punctuation | 5.4 | 84 | | |
| Language Usage | 4.2 | 60 | | |
| Map Reading | 4.0 | 60 | | |
| Graphs and Tables | 4.6 | 76 | | |
| Reference Materials | 4.2 | 69 | | |
| Math Concepts | 3.7 | 49 | | |
| Math Problem Solving | 3.7 | 49 | | |

NUMBER TAKING ALL SUBTESTS

41

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 7.0 | 82 |
| Vocabulary | 4.7 | 80 | 6.9 | 78 |
| Reading Comprehension | 4.8 | 78 | 6.9 | 78 |
| Spelling | 5.2 | 81 | 7.3 | 79 |
| Capitalization | 4.9 | 77 | 7.4 | 78 |
| Punctuation | 5.2 | 81 | 7.5 | 81 |
| Language Usage | 4.9 | 74 | 7.1 | 74 |
| Map Reading | 4.8 | 83 | 7.1 | 83 |
| Graphs and Tables | 4.8 | 81 | 7.0 | 79 |
| Reference Materials | 4.3 | 72 | 7.0 | 77 |
| Math Concepts | 4.4 | 73 | 7.1 | 83 |
| Math Problem Solving | 4.1 | 66 | 7.0 | 85 |
| NUMBER TAKING ALL SUBTESTS | | 37 | | 32 |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 15 | 74 | 87 | 13 | 63 | 73 |
| Comprehension | 5 | 15 | 70 | 83 | 17 | 62 | 71 |
| Language Total | 3 | 15 | 76 | 89 | 13 | 68 | 80 |
| | 5 | 15 | 73 | 86 | 17 | 67 | 79 |
| Math Total | 3 | 15 | 85 | 95 | 13 | 69 | 82 |
| | 5 | 15 | 76 | 89 | 17 | 70 | 83 |
| Composite | 3 | 15 | 80 | 92 | 13 | 68 | 80 |
| | 5 | 15 | 74 | 87 | 17 | 68 | 80 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | 6.1 | 62 |
| Vocabulary | 4.0 | 59 | 6.0 | 57 |
| Reading Comprehension | 3.9 | 55 | 5.6 | 47 |
| Spelling | 4.2 | 62 | 6.6 | 67 |
| Capitalization | 4.3 | 64 | 7.0 | 72 |
| Punctuation | 4.5 | 69 | 6.4 | 63 |
| Language Usage | 4.0 | 56 | 6.2 | 58 |
| Map Reading | 3.9 | 56 | 6.2 | 63 |
| Graphs and Tables | 4.2 | 65 | 6.1 | 60 |
| Reference Materials | 3.9 | 57 | 5.9 | 54 |
| Math Concepts | 4.0 | 59 | 6.3 | 65 |
| Math Problem Solving | 3.8 | 53 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | 39 | | 47 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 27 | 55 | 60 | | | |
| | 5 | 27 | 50 | 50 | 19 | 43- | 37 |
| Language Total | 3 | 27 | 66 | 78 | | | |
| | 5 | 27 | 65 | 76 | 19 | 53- | 56 |
| Math Total | 3 | 28 | 59 | 66 | | | |
| | 5 | 28 | 62 | 71 | 19 | 53- | 56 |
| Composite | 3 | 27 | 61 | 70 | | | |
| | 5 | 27 | 59 | 66 | 19 | 49- | 49 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.8 | 78 |
| Vocabulary | 4.5 | 75 | 6.7 | 74 |
| Reading Comprehension | 4.5 | 71 | 6.4 | 67 |
| Spelling | 4.9 | 76 | 6.7 | 69 |
| Capitalization | 5.1 | 81 | 7.6 | 81 |
| Punctuation | 5.1 | 80 | 7.0 | 73 |
| Language Usage | 4.5 | 66 | 7.1 | 74 |
| Map Reading | 4.7 | 81 | 7.0 | 81 |
| Graphs and Tables | 4.8 | 81 | 7.2 | 83 |
| Reference Materials | 4.5 | 79 | 6.7 | 71 |
| Math Concepts | 4.4 | 75 | 7.3 | 87 |
| Math Problem Solving | 4.3 | 75 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | | 40 | 56 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 48 | 61 | 70 | 16 | 58 | 65 |
| Comprehension | 5 | 48 | 59 | 67 | | | |
| Language Total | 3 | 48 | 70 | 83 | 16 | 61 | 70 |
| | 5 | 48 | 69 | 82 | | | |
| Math Total | 3 | 48 | 67 | 79 | 16 | 54 | 58 |
| | 5 | 48 | 71 | 84 | | | |
| Composite | 3 | 48 | 69 | 82 | 16 | 60 | 68 |
| | 5 | 48 | 68 | 81 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.6 | 74 |
| Vocabulary | 4.8 | 82 | 6.6 | 72 |
| Reading Comprehension | 4.9 | 81 | 6.3 | 64 |
| Spelling | 5.4 | 84 | 6.9 | 72 |
| Capitalization | 5.3 | 84 | 6.6 | 66 |
| Punctuation | 5.8 | 89 | 6.7 | 68 |
| Language Usage | 5.0 | 76 | 6.8 | 69 |
| Map Reading | 4.8 | 83 | 6.4 | 68 |
| Graphs and Tables | 5.3 | 89 | 6.8 | 76 |
| Reference Materials | 4.7 | 83 | 6.7 | 71 |
| Math Concepts | 4.7 | 82 | 6.6 | 72 |
| Math Problem Solving | 4.6 | 85 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | 39 | | 46 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 29 | 66 | 77 | 14 | 70 | 83 |
| | 5 | 29 | 60 | 68 | 18 | 55 | 59 |
| Language Total | 3 | 29 | 77 | 90 | 14 | 76 | 89 |
| | 5 | 29 | 66 | 77 | 18 | 57 | 63 |
| Math Total | 3 | 29 | 75 | 88 | 14 | 79 | 91 |
| | 5 | 29 | 67 | 79 | 18 | 62 | 71 |
| Composite | 3 | 29 | 73 | 86 | 14 | 76 | 89 |
| | 5 | 29 | 66 | 77 | 17 | 61 | 70 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.3 | 67 |
| Vocabulary | 4.1 | 62 | 6.3 | 65 |
| Reading Comprehension | 3.9 | 55 | 6.0 | 57 |
| Spelling | 5.0 | 78 | 6.4 | 64 |
| Capitalization | 4.8 | 75 | 6.7 | 67 |
| Punctuation | 4.8 | 75 | 6.5 | 65 |
| Language Usage | 4.4 | 64 | 6.3 | 60 |
| Map Reading | 4.3 | 70 | 6.3 | 66 |
| Graphs and Tables | 4.5 | 74 | 6.4 | 67 |
| Reference Materials | 4.2 | 69 | 6.2 | 61 |
| Math Concepts | 4.0 | 59 | 6.3 | 65 |
| Math Problem Solving | 3.9 | 57 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | | 73 | 93 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 68 | 55 | 60 | 25 | 48 | 46 |
| | 5 | 68 | 55 | 59 | 25 | 53 | 56 |
| Language Total | 3 | 67 | 65 | 76 | 26 | 51 | 51 |
| | 5 | 67 | 60 | 68 | 25 | 59+ | 66 |
| Math Total | 3 | 68 | 63 | 73 | 26 | 49 | 49 |
| | 5 | 68 | 59 | 67 | 25 | 57+ | 63 |
| Composite | 3 | 67 | 63 | 73 | 25 | 49 | 49 |
| | 5 | 67 | 59 | 67 | 25 | 56 | 62 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.1 | 90 | 7.1 | 84 |
| Vocabulary | 5.1 | 88 | 6.8 | 76 |
| Reading Comprehension | 5.1 | 84 | 6.8 | 76 |
| Spelling | 5.5 | 86 | 7.1 | 76 |
| Capitalization | 5.5 | 87 | 7.3 | 77 |
| Punctuation | 5.7 | 88 | 7.3 | 78 |
| Language Usage | 5.3 | 81 | 7.2 | 76 |
| Map Reading | 5.3 | 90 | 7.3 | 86 |
| Graphs and Tables | 5.2 | 88 | 7.4 | 85 |
| Reference Materials | 4.7 | 83 | 6.9 | 75 |
| Math Concepts | 4.9 | 87 | 7.5 | 90 |
| Math Problem Solving | 4.7 | 87 | 7.1 | 87 |
| NUMBER TAKING ALL SUBTESTS | 40 | | 71 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 36 | 72 | 85 | 17 | 62 | 72 |
| Comprehension | 5 | 36 | 72 | 85 | 35 | 57 | 63 |
| Language Total | 3 | 36 | 75 | 88 | 17 | 63 | 73 |
| | 5 | 36 | 74 | 87 | 35 | 64 | 75 |
| Math Total | 3 | 36 | 85 | 95 | 17 | 72 | 85 |
| | 5 | 36 | 85 | 95 | 35 | 70 | 83 |
| Composite | 3 | 36 | 80 | 92 | 17 | 67 | 79 |
| | 5 | 36 | 79 | 91 | 35 | 64 | 75 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.7 | 81 | 6.4 | 70 |
| Vocabulary | 4.6 | 78 | 6.3 | 65 |
| Reading Comprehension | 4.6 | 74 | 6.2 | 62 |
| Spelling | 5.2 | 81 | 6.7 | 69 |
| Capitalization | 5.4 | 85 | 6.8 | 69 |
| Punctuation | 5.5 | 86 | 6.7 | 68 |
| Language Usage | 4.8 | 72 | 6.7 | 67 |
| Map Reading | 4.7 | 81 | 6.3 | 66 |
| Graphs and Tables | 4.9 | 83 | 6.5 | 69 |
| Reference Materials | 4.4 | 76 | 6.3 | 64 |
| Math Concepts | 4.3 | 69 | 6.3 | 65 |
| Math Problem Solving | 4.4 | 79 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | 73 | | 70 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 35 | 65 | 76 | 58 | 59 | 66 |
| Comprehension | 5 | 35 | 62 | 71 | 35 | 52 | 54 |
| Language Total | 3 | 35 | 72 | 85 | 58 | 66 | 77 |
| | 5 | 35 | 67 | 79 | 35 | 57 | 63 |
| Math Total | 3 | 35 | 71 | 84 | 58 | 61 | 70 |
| | 5 | 35 | 68 | 80 | 35 | 54 | 58 |
| Composite | 3 | 35 | 71 | 84 | 58 | 63 | 73 |
| | 5 | 35 | 67 | 79 | 35 | 54 | 58 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE.. | 4.5 | 76 | 6.7 | 76 |
| Vocabulary | 4.5 | 75 | 6.5 | 70 |
| Reading Comprehension | 4.5 | 71 | 6.6 | 71 |
| Spelling | 4.8 | 74 | 6.7 | 69 |
| Capitalization | 4.9 | 77 | 6.9 | 71 |
| Punctuation | 5.3 | 83 | 6.8 | 70 |
| Language Usage | 4.6 | 68 | 6.7 | 67 |
| Map Reading | 4.4 | 73 | 6.7 | 75 |
| Graphs and Tables | 4.5 | 74 | 7.1 | 81 |
| Reference Materials | 4.3 | 72 | 6.8 | 73 |
| Math Concepts | 4.3 | 69 | 6.8 | 77 |
| Math Problem Solving | 4.1 | 66 | 6.6 | 77 |
| NUMBER TAKING ALL SUBTESTS | 79 | | 106 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 69 | 62 | 72 | 26 | 62 | 71 |
| Comprehension | 5 | 69 | 64 | 75 | 37 | 58 | 64 |
| Language Total | 3 | 69 | 65 | 76 | 26 | 64 | 75 |
| | 5 | 69 | 66 | 78 | 37 | 57 | 63 |
| Math Total | 3 | 69 | 65 | 76 | 26 | 62 | 72 |
| | 5 | 69 | 71 | 84 | 37 | 61 | 70 |
| Composite | 3 | 69 | 65 | 76 | 26 | 64 | 74 |
| | 5 | 69 | 69 | 82 | 37 | 59 | 67 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.7 | 76 |
| Vocabulary | 4.4 | 72 | 6.6 | 72 |
| Reading Comprehension | 4.6 | 74 | 6.5 | 69 |
| Spelling | 5.1 | 79 | 6.8 | 71 |
| Capitalization | 4.9 | 77 | 7.1 | 74 |
| Punctuation | 4.8 | 75 | 6.9 | 72 |
| Language Usage | 4.8 | 72 | 6.5 | 63 |
| Map Reading | 4.3 | 70 | 6.7 | 75 |
| Graphs and Tables | 4.7 | 79 | 7.1 | 81 |
| Reference Materials | 4.5 | 79 | 6.7 | 71 |
| Math Concepts | 4.5 | 76 | 7.0 | 81 |
| Math Problem Solving | 4.4 | 79 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | 34 | | 59 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 42 | 60 | 69 | 17 | 56- | 61 |
| | 5 | 42 | 62 | 71 | | | |
| Language Total | 3 | 42 | 66 | 77 | 17 | 58- | 65 |
| | 5 | 42 | 66 | 77 | | | |
| Math Total | 3 | 42 | 65 | 76 | 17 | 59- | 66 |
| | 5 | 42 | 70 | 83 | | | |
| Composite | 3 | 42 | 64 | 74 | 17 | 59- | 67 |
| | 5 | 42 | 68 | 81 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.9 | 58 | 5.7 | 51 |
| Vocabulary | 3.9 | 55 | 5.6 | 47 |
| Reading Comprehension | 3.9 | 55 | 5.4 | 42 |
| Spelling | 4.6 | 70 | 5.9 | 54 |
| Capitalization | 4.5 | 68 | 6.0 | 55 |
| Punctuation | 4.2 | 62 | 5.7 | 49 |
| Language Usage | 3.8 | 52 | 5.6 | 48 |
| Map Reading | 3.9 | 56 | 5.9 | 55 |
| Graphs and Tables | 3.9 | 55 | 6.2 | 62 |
| Reference Materials | 3.8 | 53 | 6.0 | 57 |
| Math Concepts | 3.8 | 52 | 5.8 | 52 |
| Math Problem Solving | 3.5 | 49 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | | 58 | 51 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 28 | 53 | 56 | 18 | 41 | 34 |
| Comprehension | 5 | 28 | 45 | 41 | 23 | 45 | 40 |
| Language Total | 3 | 28 | 58 | 65 | 18 | 50 | 50 |
| | 5 | 28 | 54 | 57 | 23 | 47 | 45 |
| Math Total | 3 | 28 | 60 | 69 | 18 | 42 | 35 |
| | 5 | 28 | 58 | 64 | 23 | 45 | 40 |
| Composite | 3 | 28 | 58 | 64 | 18 | 45 | 40 |
| | 5 | 28 | 53 | 56 | 23 | 46 | 42 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.4 | 73 | 6.3 | 67 |
| Vocabulary | 4.5 | 75 | 6.0 | 57 |
| Reading Comprehension | 4.1 | 60 | 6.0 | 57 |
| Spelling | 4.9 | 76 | 6.3 | 62 |
| Capitalization | 4.9 | 77 | 6.5 | 64 |
| Punctuation | 5.0 | 78 | 6.5 | 65 |
| Language Usage | 4.5 | 66 | 6.1 | 57 |
| Map Reading | 4.1 | 64 | 6.5 | 71 |
| Graphs and Tables | 4.5 | 74 | 6.7 | 74 |
| Reference Materials | 4.1 | 65 | 6.6 | 70 |
| Math Concepts | 4.2 | 66 | 6.6 | 72 |
| Math Problem Solving | 4.1 | 66 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | | 72 | 67 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| | | | | | | | |
| Reading | 3 | 45 | 61 | 70 | 25 | 51 | 51 |
| Comprehension | 5 | 45 | 58 | 65 | 22 | 46 | 43 |
| Language Total | 3 | 45 | 69 | 82 | 25 | 62 | 71 |
| | 5 | 45 | 62 | 72 | 22 | 48 | 46 |
| Math Total | 3 | 45 | 71 | 84 | 25 | 54 | 58 |
| | 5 | 45 | 68 | 80 | 22 | 55 | 59 |
| Composite | 3 | 45 | 68 | 81 | 25 | 54 | 58 |
| | 5 | 45 | 64 | 75 | 22 | 49 | 48 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.1 | 65 | | |
| Vocabulary | 4.0 | 59 | | |
| Reading Comprehension | 4.1 | 60 | | |
| Spelling | 4.6 | 70 | | |
| Capitalization | 4.2 | 62 | | |
| Punctuation | 4.0 | 57 | | |
| Language Usage | 4.0 | 56 | | |
| Map Reading | 3.9 | 56 | | |
| Graphs and Tables | 4.0 | 58 | | |
| Reference Materials | 3.9 | 57 | | |
| Math Concepts | 3.9 | 56 | | |
| Math Problem Solving | 3.8 | 53 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | | 104 | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.6 | 79 | 6.4 | 70 |
| Vocabulary | 4.4 | 72 | 6.2 | 62 |
| Reading Comprehension | 4.6 | 74 | 6.4 | 67 |
| Spelling | 5.2 | 81 | 6.4 | 64 |
| Capitalization | 4.8 | 75 | 6.4 | 62 |
| Punctuation | 5.4 | 84 | 6.7 | 68 |
| Language Usage | 4.7 | 70 | 6.6 | 65 |
| Map Reading | 4.4 | 73 | 6.4 | 68 |
| Graphs and Tables | 4.7 | 79 | 6.5 | 69 |
| Reference Materials | 4.5 | 79 | 6.6 | 70 |
| Math Concepts | 4.3 | 69 | 6.1 | 60 |
| Math Problem Solving | 4.3 | 75 | 6.1 | 62 |
| NUMBER TAKING ALL SUBTESTS | | 56 | 59 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 39 | 61 | 70 | | | |
| Comprehension | 5 | 39 | 62 | 71 | 20 | 55 | 60 |
| Language Total | 3 | 39 | 68 | 81 | | | |
| | 5 | 39 | 61 | 70 | 20 | 56 | 61 |
| Math Total | 3 | 38 | 63 | 73 | | | |
| | 5 | 38 | 57 | 63 | 20 | 57 | 63 |
| Composite | 3 | 38 | 65 | 76 | | | |
| | 5 | 38 | 61 | 70 | 20 | 57 | 63 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.0 | 62 | 5.8 | 54 |
| Vocabulary | 3.7 | 49 | 5.4 | 42 |
| Reading Comprehension | 3.8 | 52 | 5.7 | 50 |
| Spelling | 4.6 | 70 | 6.0 | 56 |
| Capitalization | 4.5 | 68 | 5.8 | 52 |
| Punctuation | 4.8 | 75 | 5.7 | 49 |
| Language Usage | 3.8 | 52 | 5.8 | 51 |
| Map Reading | 3.9 | 56 | 5.9 | 55 |
| Graphs and Tables | 4.2 | 65 | 6.0 | 57 |
| Reference Materials | 3.6 | 46 | 5.8 | 52 |
| Math Concepts | 3.8 | 52 | 6.1 | 60 |
| Math Problem Solving | 3.6 | 46 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | | 62 | 60 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 48 | 54 | 58 | 28 | 34 | 22 |
| | 5 | 48 | 51 | 51 | 13 | 43+ | 37 |
| Language Total | 3 | 47 | 56 | 62 | 28 | 47 | 45 |
| | 5 | 47 | 50 | 50 | 13 | 51 | 52 |
| Math Total | 3 | 47 | 54 | 57 | 28 | 49 | 48 |
| | 5 | 47 | 54 | 58 | 12 | 57+ | 63 |
| Composite | 3 | 45 | 54 | 57 | 26 | 42 | 35 |
| | 5 | 45 | 50 | 50 | 12 | 48+ | 46 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|------------------|---------------|------------------|---------------|
| | Grade Equivalent | Percentile | Grade Equivalent | Percentile |
| | Score (3.7)* | Rank (52)* | Score (5.7)* | Rank (51)* |
| COMPOSITE | 4.4 | 73 | 5.8 | 54 |
| Vocabulary | 4.0 | 59 | 5.4 | 42 |
| Reading Comprehension | 4.3 | 66 | 5.6 | 47 |
| Spelling | 5.2 | 81 | 5.9 | 54 |
| Capitalization | 4.9 | 77 | 6.6 | 66 |
| Punctuation | 4.9 | 77 | 6.2 | 59 |
| Language Usage | 4.5 | 66 | 6.0 | 55 |
| Map Reading | 4.3 | 70 | 6.4 | 68 |
| Graphs and Tables | 4.7 | 79 | 6.1 | 60 |
| Reference Materials | 4.2 | 69 | 5.8 | 52 |
| Math Concepts | 4.2 | 66 | 5.6 | 46 |
| Math Problem Solving | 4.3 | 75 | 5.5 | 44 |
| NUMBER TAKING ALL SUBTESTS | 49 | | 63 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|------|-----------------|---|------|-----------------|
| | | Number | NCE | Percentile | Number | NCE | Percentile |
| | | Taking Test | Mean | Rank of Mean | Taking Test | Mean | Rank of Mean |
| Reading | 3 | 42 | 53 | 56 | 20 | 43 | 37 |
| Comprehension | 5 | 42 | 51 | 52 | 22 | 43 | 37 |
| Language Total | 3 | 42 | 59 | 67 | 20 | 52 | 54 |
| | 5 | 42 | 56 | 62 | 22 | 54 | 57 |
| Math Total | 3 | 41 | 54 | 58 | 20 | 50 | 50 |
| | 5 | 41 | 50 | 50 | 22 | 46 | 43 |
| Composite | 3 | 41 | 55 | 59 | 20 | 47 | 44 |
| | 5 | 41 | 53 | 55 | 22 | 49 | 48 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 5.9 | 56 |
| Vocabulary | 4.1 | 62 | 5.7 | 49 |
| Reading Comprehension | 4.2 | 63 | 5.8 | 52 |
| Spelling | 4.7 | 72 | 6.2 | 60 |
| Capitalization | 4.9 | 77 | 6.6 | 66 |
| Punctuation | 4.9 | 77 | 6.3 | 61 |
| Language Usage | 4.2 | 60 | 6.1 | 57 |
| Map Reading | 4.3 | 70 | 5.8 | 52 |
| Graphs and Tables | 4.3 | 68 | 5.9 | 55 |
| Reference Materials | 4.0 | 61 | 6.3 | 64 |
| Math Concepts | 4.0 | 59 | 5.8 | 52 |
| Math Problem Solving | 3.9 | 57 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | 70 | | 74 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|---|----------|-------------------------|--|----------|-------------------------|
| | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 44 | 58 | 65 | 49 | 54 |
| Comprehension | 5 | 44 | 54 | 58 | 30 | 45 |
| Language Total | 3 | 44 | 68 | 80 | 48 | 58 |
| | 5 | 44 | 61 | 70 | 30 | 51 |
| Math Total | 3 | 44 | 59 | 67 | 50 | 49 |
| | 5 | 44 | 56 | 61 | 30 | 47 |
| Composite | 3 | 43 | 61 | 70 | 48 | 53 |
| | 5 | 43 | 57 | 63 | 30 | 47 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.0 | 59 |
| Vocabulary | 4.3 | 69 | 6.0 | 57 |
| Reading Comprehension | 4.3 | 66 | 5.9 | 55 |
| Spelling | 4.5 | 68 | 6.1 | 58 |
| Capitalization | 4.0 | 57 | 6.4 | 62 |
| Punctuation | 4.1 | 60 | 6.0 | 56 |
| Language Usage | 4.4 | 64 | 6.1 | 57 |
| Map Reading | 4.2 | 67 | 6.0 | 58 |
| Graphs and Tables | 4.5 | 74 | 6.4 | 67 |
| Reference Materials | 4.0 | 61 | 6.1 | 59 |
| Math Concepts | 4.1 | 63 | 6.0 | 57 |
| Math Problem Solving | 4.2 | 70 | 5.9 | 55 |
| NUMBER TAKING ALL SUBTESTS | | 65 | 91 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 51 | 54 | 58 | 34 | 54 | 58 |
| Comprehension | 5 | 51 | 54 | 57 | 40 | 50 | 50 |
| Language Total | 3 | 51 | 54 | 57 | 34 | 58 | 64 |
| | 5 | 51 | 55 | 60 | 40 | 55 | 59 |
| Math Total | 3 | 51 | 58 | 65 | 34 | 55 | 60 |
| | 5 | 51 | 55 | 60 | 40 | 53 | 56 |
| Composite | 3 | 51 | 56 | 62 | 34 | 57 | 63 |
| | 5 | 51 | 56 | 61 | 40 | 54 | 58 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.8 | 83 | 6.7 | 76 |
| Vocabulary | 4.6 | 78 | 6.7 | 74 |
| Reading Comprehension | 4.7 | 76 | 6.3 | 64 |
| Spelling | 5.4 | 84 | 7.2 | 77 |
| Capitalization | 5.1 | 81 | 7.7 | 82 |
| Punctuation | 5.7 | 88 | 7.4 | 80 |
| Language Usage | 5.1 | 78 | 6.8 | 69 |
| Map Reading | 4.7 | 81 | 7.0 | 81 |
| Graphs and Tables | 5.0 | 84 | 6.7 | 74 |
| Reference Materials | 4.6 | 81 | 6.9 | 75 |
| Math Concepts | 4.6 | 79 | 6.8 | 77 |
| Math Problem Solving | 4.5 | 82 | 6.3 | 69 |
| NUMBER TAKING ALL SUBTESTS | 62 | | 78 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 61 | 61 | 70 | 20 | 64 | 75 |
| | 5 | 61 | 59 | 67 | 17 | 52 | 54 |
| Language Total | 3 | 61 | 69 | 82 | 20 | 67 | 79 |
| | 5 | 61 | 71 | 84 | 17 | 65 | 76 |
| Math Total | 3 | 61 | 69 | 82 | 20 | 70 | 83 |
| | 5 | 61 | 68 | 80 | 17 | 54 | 58 |
| Composite | 3 | 61 | 68 | 80 | 20 | 68 | 81 |
| | 5 | 61 | 68 | 81 | 17 | 59 | 67 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.9 | 58 | 5.8 | 54 |
| Vocabulary | 3.7 | 49 | 5.9 | 54 |
| Reading Comprehension | 3.7 | 49 | 5.6 | 47 |
| Spelling | 4.4 | 66 | 5.9 | 54 |
| Capitalization | 4.5 | 68 | 6.1 | 57 |
| Punctuation | 4.6 | 71 | 6.1 | 58 |
| Language Usage | 3.8 | 52 | 5.9 | 53 |
| Map Reading | 3.8 | 53 | 5.9 | 55 |
| Graphs and Tables | 4.0 | 58 | 5.9 | 55 |
| Reference Materials | 3.7 | 49 | 5.9 | 54 |
| Math Concepts | 3.7 | 49 | 5.7 | 49 |
| Math Problem Solving | 3.6 | 46 | 5.6 | 47 |
| NUMBER TAKING ALL SUBTESTS | | 69 | 87 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 60 | 51 | 52 | 25 | 46 | 43 |
| Comprehension | 5 | 60 | 47 | 44 | 27 | 52+ | 54 |
| Language Total | 3 | 60 | 53 | 56 | 25 | 57 | 63 |
| | 5 | 60 | 52 | 53 | 27 | 58 | 65 |
| Math Total | 3 | 60 | 53 | 56 | 25 | 46 | 43 |
| | 5 | 60 | 48 | 46 | 27 | 56+ | 61 |
| Composite | 3 | 60 | 54 | 57 | 25 | 51 | 51 |
| | 5 | 60 | 51 | 51 | 27 | 55 | 60 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (4.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.3 | 71 | 6.2 | 64 |
| Vocabulary | 4.1 | 62 | 5.9 | 54 |
| Reading Comprehension | 4.3 | 66 | 6.2 | 62 |
| Spelling | 4.7 | 72 | 6.2 | 60 |
| Capitalization | 5.0 | 79 | 6.5 | 64 |
| Punctuation | 4.8 | 75 | 6.0 | 56 |
| Language Usage | 4.4 | 64 | 6.1 | 57 |
| Map Reading | 4.4 | 73 | 6.1 | 61 |
| Graphs and Tables | 4.3 | 68 | 6.3 | 65 |
| Reference Materials | 4.3 | 72 | 6.3 | 64 |
| Math Concepts | 3.9 | 56 | 6.3 | 65 |
| Math Problem Solving | 4.0 | 62 | 6.4 | 72 |
| NUMBER TAKING ALL SUBTESTS | 38 | | 44 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 36 | 63 | 73 | 23 | 56 | 61 |
| | 5 | 36 | 57 | 63 | | | |
| Language Total | 3 | 36 | 66 | 78 | 23 | 58 | 64 |
| | 5 | 36 | 58 | 65 | | | |
| Math Total | 3 | 36 | 63 | 73 | 23 | 55 | 59 |
| | 5 | 36 | 63 | 73 | | | |
| Composite | 3 | 36 | 65 | 76 | 23 | 56 | 61 |
| | 5 | 36 | 59 | 67 | | | |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.0 | 88 | 6.9 | 80 |
| Vocabulary | 5.0 | 86 | 6.8 | 76 |
| Reading Comprehension | 5.1 | 84 | 6.8 | 76 |
| Spelling | 5.3 | 83 | 6.9 | 72 |
| Capitalization | 5.2 | 82 | 7.4 | 78 |
| Punctuation | 5.2 | 81 | 6.9 | 72 |
| Language Usage | 5.1 | 78 | 7.4 | 79 |
| Map Reading | 5.1 | 87 | 7.1 | 83 |
| Graphs and Tables | 5.1 | 86 | 7.2 | 83 |
| Reference Materials | 4.8 | 85 | 6.8 | 73 |
| Math Concepts | 4.5 | 76 | 6.8 | 77 |
| Math Problem Solving | 4.4 | 79 | 6.7 | 79 |
| NUMBER TAKING ALL SUBTESTS | 50 | | 54 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 43 | 67 | 79 | 10 | 64 | 75 |
| Comprehension | 5 | 43 | 65 | 76 | 11 | 62 | 72 |
| Language Total | 3 | 42 | 69 | 82 | 10 | 71 | 84 |
| | 5 | 42 | 70 | 83 | 11 | 63 | 73 |
| Math Total | 3 | 43 | 66 | 77 | 10 | 67 | 79 |
| | 5 | 43 | 70 | 83 | 11 | 64 | 74 |
| Composite | 3 | 42 | 70 | 83 | 10 | 68 | 81 |
| | 5 | 42 | 71 | 84 | 11 | 65 | 76 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.6 | 74 |
| Vocabulary | 4.5 | 75 | 6.3 | 65 |
| Reading Comprehension | 4.6 | 74 | 6.3 | 64 |
| Spelling | 5.4 | 84 | 6.7 | 69 |
| Capitalization | 5.7 | 90 | 7.1 | 74 |
| Punctuation | 6.0 | 92 | 7.0 | 73 |
| Language Usage | 5.0 | 76 | 7.0 | 72 |
| Map Reading | 4.9 | 84 | 6.6 | 73 |
| Graphs and Tables | 5.2 | 88 | 6.7 | 74 |
| Reference Materials | 4.9 | 87 | 6.8 | 73 |
| Math Concepts | 4.5 | 76 | 7.0 | 81 |
| Math Problem Solving | 4.8 | 89 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | 47 | | 78 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 58 | 63 | 73 | | | |
| Comprehension | 5 | 58 | 60 | 68 | 20 | 53 | 56 |
| Language Total | 3 | 58 | 73 | 86 | | | |
| | 5 | 58 | 67 | 79 | 20 | 63 | 73 |
| Math Total | 3 | 58 | 71 | 84 | | | |
| | 5 | 58 | 70 | 83 | 20 | 63 | 73 |
| Composite | 3 | 58 | 70 | 83 | | | |
| | 5 | 58 | 66 | 78 | 20 | 59 | 67 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.2 | 68 | 6.1 | 62 |
| Vocabulary | 4.1 | 62 | 5.9 | 54 |
| Reading Comprehension | 4.2 | 63 | 6.0 | 57 |
| Spelling | 4.4 | 66 | 6.3 | 62 |
| Capitalization | 4.9 | 77 | 6.8 | 69 |
| Punctuation | 4.9 | 77 | 6.6 | 67 |
| Language Usage | 4.2 | 60 | 6.3 | 60 |
| Map Reading | 4.2 | 67 | 5.9 | 55 |
| Graphs and Tables | 4.5 | 74 | 6.1 | 60 |
| Reference Materials | 4.1 | 65 | 6.0 | 57 |
| Math Concepts | 4.1 | 63 | 6.2 | 62 |
| Math Problem Solving | 3.9 | 57 | 5.8 | 52 |
| NUMBER TAKING ALL SUBTESTS | 78 | | 76 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 46 | 57 | 63 | 23 | 54 | 58 |
| | 5 | 46 | 57 | 63 | 30 | 50 | 50 |
| Language Total | 3 | 46 | 63 | 73 | 24 | 54 | 58 |
| | 5 | 46 | 62 | 71 | 30 | 57 | 63 |
| Math Total | 3 | 46 | 66 | 77 | 24 | 56 | 61 |
| | 5 | 46 | 60 | 68 | 30 | 50 | 50 |
| Composite | 3 | 46 | 63 | 73 | 23 | 57 | 63 |
| | 5 | 46 | 59 | 67 | 30 | 51 | 51 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.0 | 88 | 6.6 | 74 |
| Vocabulary | 4.7 | 80 | 6.5 | 70 |
| Reading Comprehension | 4.9 | 81 | 6.3 | 64 |
| Spelling | 5.4 | 84 | 6.8 | 71 |
| Capitalization | 5.5 | 87 | 6.8 | 69 |
| Punctuation | 5.7 | 88 | 6.8 | 70 |
| Language Usage | 5.3 | 81 | 6.9 | 71 |
| Map Reading | 5.0 | 86 | 6.6 | 73 |
| Graphs and Tables | 5.0 | 84 | 7.0 | 79 |
| Reference Materials | 4.8 | 85 | 6.6 | 70 |
| Math Concepts | 4.7 | 82 | 6.4 | 67 |
| Math Problem Solving | 4.7 | 87 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | | 76 | 101 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|-----------------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading Comprehension | 3 | 77 | 69 | 82 | 16 | 69 | 82 |
| | 5 | 77 | 60 | 69 | 31 | 53- | 56 |
| Language Total | 3 | 76 | 75 | 88 | 16 | 73 | 86 |
| | 5 | 76 | 67 | 79 | 31 | 57- | 63 |
| Math Total | 3 | 77 | 74 | 87 | 17 | 68 | 80 |
| | 5 | 72 | 66 | 77 | 31 | 56- | 62 |
| Composite | 3 | 70 | 75 | 88 | 14 | 71 | 84 |
| | 5 | 70 | 67 | 79 | 29 | 57- | 63 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 7.1 | 84 |
| Vocabulary | 4.8 | 82 | 6.9 | 78 |
| Reading Comprehension | 5.0 | 83 | 6.8 | 76 |
| Spelling | 5.4 | 84 | 7.2 | 77 |
| Capitalization | 5.5 | 87 | 7.9 | 85 |
| Punctuation | 5.4 | 84 | 7.5 | 81 |
| Language Usage | 5.3 | 81 | 7.5 | 81 |
| Map Reading | 4.9 | 84 | 6.9 | 79 |
| Graphs and Tables | 5.2 | 88 | 7.5 | 87 |
| Reference Materials | 4.8 | 85 | 6.9 | 75 |
| Math Concepts | 4.4 | 73 | 7.1 | 83 |
| Math Problem Solving | 4.4 | 79 | 6.7 | 79 |
| NUMBER TAKING ALL SUBTESTS | 57 | | 69 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 48 | 63 | 76 | 18 | 77 | 90 |
| Comprehension | 5 | 48 | 66 | 77 | 21 | 63 | 73 |
| Language Total | 3 | 48 | 68 | 80 | 18 | 70 | 83 |
| | 5 | 48 | 73+ | 86 | 21 | 74 | 87 |
| Math Total | 3 | 48 | 66 | 78 | 18 | 70 | 83 |
| | 5 | 48 | 72 | 85 | 21 | 69 | 82 |
| Composite | 3 | 46 | 68 | 81 | 18 | 75 | 88 |
| | 5 | 46 | 72 | 85 | 21 | 70 | 83 |

SCHOOL MEAN SCORES: IQWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 4.9 | 86 | 6.9 | 80 |
| Vocabulary | 4.6 | 78 | 6.7 | 74 |
| Reading Comprehension | 4.7 | 76 | 6.7 | 73 |
| Spelling | 5.3 | 83 | 7.4 | 80 |
| Capitalization | 5.5 | 87 | 7.6 | 81 |
| Punctuation | 5.8 | 89 | 7.2 | 77 |
| Language Usage | 5.1 | 78 | 7.3 | 77 |
| Map Reading | 5.0 | 86 | 6.7 | 75 |
| Graphs and Tables | 5.2 | 88 | 6.8 | 76 |
| Reference Materials | 4.8 | 85 | 7.1 | 79 |
| Math Concepts | 4.6 | 79 | 6.8 | 77 |
| Math Problem Solving | 4.7 | 87 | 6.5 | 75 |
| NUMBER TAKING ALL SUBTESTS | 71 | | 58 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 41 | 62 | 72 | | | |
| Comprehension | 5 | 41 | 63 | 73 | 17 | 67 | 79 |
| Language Total | 3 | 41 | 73 | 86 | | | |
| | 5 | 41 | 72 | 85 | 17 | 71 | 84 |
| Math Total | 3 | 41 | 67 | 79 | | | |
| | 5 | 41 | 66 | 77 | 17 | 71 | 84 |
| Composite | 3 | 41 | 71 | 84 | | | |
| | 5 | 41 | 68 | 80 | 17 | 71 | 84 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 3.8 | 55 | | |
| Vocabulary | 3.6 | 47 | | |
| Reading Comprehension | 3.7 | 49 | | |
| Spelling | 4.4 | 66 | | |
| Capitalization | 4.3 | 64 | | |
| Punctuation | 4.1 | 60 | | |
| Language Usage | 3.7 | 49 | | |
| Map Reading | 3.7 | 49 | | |
| Graphs and Tables | 3.8 | 52 | | |
| Reference Materials | 3.6 | 46 | | |
| Math Concepts | 3.5 | 42 | | |
| Math Problem Solving | 3.4 | 39 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 63 | | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | | | 5.1 | 35 |
| Vocabulary | | | 4.9 | 31 |
| Reading Comprehension | | | 5.2 | 37 |
| Spelling | | | 5.2 | 39 |
| Capitalization | | | 5.2 | 39 |
| Punctuation | | | 5.5 | 45 |
| Language Usage | | | 5.2 | 40 |
| Map Reading | | | 5.0 | 31 |
| Graphs and Tables | | | 5.1 | 35 |
| Reference Materials | | | 5.4 | 41 |
| Math Concepts | | | 4.8 | 26 |
| Math Problem Solving | | | 5.1 | 34 |
| NUMBER TAKING ALL SUBTESTS | | | 80 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 34 | 47 | 45 | 17 | 51 | 51 |
| Comprehension | 5 | 34 | 41 | 34 | 47 | 43 | 37 |
| Language Total | 3 | 34 | 57 | 63 | 17 | 62 | 72 |
| | 5 | 34 | 46 | 42 | 48 | 40- | 32 |
| Math Total | 3 | 34 | 48 | 47 | 17 | 53 | 55 |
| | 5 | 34 | 37- | 27 | 48 | 38- | 28 |
| Composite | 3 | 34 | 49 | 49 | 17 | 54 | 58 |
| | 5 | 34 | 40 | 31 | 46 | 38- | 29 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 3 | | Grade 5 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (3.7)* | Percentile Rank (52)* | Grade Equivalent Score (5.7)* | Percentile Rank (51)* |
| COMPOSITE | 5.1 | 90 | 7.1 | 84 |
| Vocabulary | 5.1 | 88 | 6.8 | 76 |
| Reading Comprehension | 5.2 | 86 | 6.9 | 78 |
| Spelling | 5.6 | 87 | 7.1 | 76 |
| Capitalization | 5.5 | 87 | 7.2 | 75 |
| Punctuation | 5.7 | 88 | 7.3 | 78 |
| Language Usage | 5.2 | 80 | 7.4 | 79 |
| Map Reading | 5.1 | 87 | 7.0 | 81 |
| Graphs and Tables | 5.2 | 88 | 7.5 | 87 |
| Reference Materials | 4.8 | 85 | 7.0 | 77 |
| Math Concepts | 4.8 | 84 | 7.2 | 85 |
| Math Problem Solving | 4.7 | 87 | 6.9 | 83 |
| NUMBER TAKING ALL SUBTESTS | | 73 | 71 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 3) AND 1980 (GRADE 5): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 3 | 44 | 72 | 85 | 16 | 69 | 82 |
| Comprehension | 5 | 44 | 69 | 82 | 27 | 64 | 74 |
| Language Total | 3 | 44 | 77 | 90 | 16 | 73 | 86 |
| | 5 | 44 | 74 | 87 | 27 | 62 | 72 |
| Math Total | 3 | 44 | 74 | 87 | 16 | 69 | 82 |
| | 5 | 44 | 73 | 86 | 27 | 72 | 85 |
| Composite | 3 | 44 | 76 | 89 | 16 | 72 | 85 |
| | 5 | 44 | 74 | 87 | 27 | 67 | 79 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.9 | 56 | 9.6 | 56 |
| Vocabulary | 7.8 | 51 | 9.5 | 52 |
| Reading Comprehension | 7.7 | 50 | 9.2 | 48 |
| Spelling | 7.9 | 53 | 9.3 | 49 |
| Capitalization | 8.1 | 56 | 9.7 | 53 |
| Punctuation | 7.7 | 50 | 9.7 | 54 |
| Language Usage | 7.7 | 50 | 9.6 | 53 |
| Map Reading | 8.8 | 70 | 10.1 | 66 |
| Graphs and Tables | 7.9 | 53 | 9.8 | 56 |
| Reference Materials | 8.0 | 56 | 9.7 | 56 |
| Math Concepts | 8.2 | 60 | 9.6 | 50 |
| Math Problem Solving | 7.8 | 52 | 9.5 | 53 |
| NUMBER TAKING ALL SUBTESTS | | 202 | 178 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 136 | 55 | 59 | 77 | 48 | 47 |
| Comprehension | 9 | 136 | 53 | 56 | 45 | 43 | 37 |
| Language Total | 7 | 135 | 57 | 63 | 77 | 50 | 50 |
| | 9 | 135 | 57 | 63 | 45 | 45 | 40 |
| Math Total | 7 | 135 | 59 | 67 | 77 | 53 | 56 |
| | 9 | 135 | 56 | 62 | 44 | 44 | 38 |
| Composite | 7 | 134 | 58 | 65 | 77 | 51 | 52 |
| | 9 | 134 | 58 | 64 | 44 | 44 | 39 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.0 | 58 | | |
| Vocabulary | 7.8 | 51 | | |
| Reading Comprehension | 7.8 | 52 | | |
| Spelling | 7.8 | 51 | | |
| Capitalization | 8.5 | 61 | | |
| Punctuation | 8.4 | 61 | | |
| Language Usage | 7.9 | 53 | | |
| Map Reading | 8.1 | 59 | | |
| Graphs and Tables | 8.0 | 56 | | |
| Reference Materials | 8.1 | 58 | | |
| Math Concepts | 8.2 | 60 | | |
| Math Problem Solving | 7.8 | 52 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 256 | | | |

* Mean for the national norm group for the Composite score

TEST RESULTS (1979-80): BENJAMIN BANNEKER JUNIOR HIGH SCHOOL 333

(AREA 4)

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.3 | 64 | 9.7 | 58 |
| Vocabulary | 8.2 | 60 | 9.7 | 57 |
| Reading Comprehension | 8.0 | 56 | 9.3 | 50 |
| Spelling | 8.2 | 58 | 9.5 | 52 |
| Capitalization | 8.4 | 60 | 10.4 | 62 |
| Punctuation | 8.2 | 58 | 10.0 | 59 |
| Language Usage | 8.1 | 55 | 9.7 | 54 |
| Map Reading | 8.8 | 70 | 9.8 | 61 |
| Graphs and Tables | 8.3 | 62 | 9.7 | 54 |
| Reference Materials | 8.3 | 61 | 9.6 | 55 |
| Math Concepts | 8.5 | 66 | 9.7 | 51 |
| Math Problem Solving | 8.1 | 59 | 9.6 | 55 |
| NUMBER TAKING ALL SUBTESTS | 230 | | 250 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 192 | 53 | 56 | 50 | 49 | 48 |
| Comprehension | 9 | 192 | 54 | 57 | 58 | 45 | 41 |
| Language Total | 7 | 191 | 56 | 62 | 50 | 51 | 51 |
| | 9 | 191 | 59 | 66 | 58 | 51 | 52 |
| Math Total | 7 | 190 | 58 | 65 | 50 | 49 | 49 |
| | 9 | 190 | 57 | 63 | 58 | 46 | 43 |
| Composite | 7 | 188 | 58 | 64 | 50 | 51 | 51 |
| | 9 | 188 | 58 | 64 | 58 | 48 | 46 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.4 | 46 | 8.9 | 43 |
| Vocabulary | 7.1 | 38 | 8.9 | 41 |
| Reading Comprehension | 7.0 | 37 | 8.6 | 39 |
| Spelling | 7.4 | 45 | 8.8 | 43 |
| Capitalization | 7.5 | 47 | 9.3 | 47 |
| Punctuation | 7.5 | 47 | 9.0 | 43 |
| Language Usage | 7.2 | 43 | 8.9 | 44 |
| Map Reading | 7.5 | 46 | 9.0 | 47 |
| Graphs and Tables | 7.5 | 45 | 9.0 | 42 |
| Reference Materials | 7.6 | 47 | 9.0 | 43 |
| Math Concepts | 7.6 | 47 | 8.9 | 39 |
| Math Problem Solving | 7.4 | 43 | 8.6 | 37 |
| NUMBER TAKING ALL SUBTESTS | | 196 | 243 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 198 | 46 | 42 | 70 | 46 | 42 |
| Comprehension | 9 | 198 | 46 | 42 | 64 | 43 | 37 |
| Language Total | 7 | 199 | 48 | 47 | 72 | 40 | 32 |
| | 9 | 199 | 49 | 48 | 61 | 47 | 45 |
| Math Total | 7 | 195 | 48 | 46 | 68 | 43 | 37 |
| | 9 | 195 | 46 | 43 | 67 | 40 | 31 |
| Composite | 7 | 178 | 48 | 47 | 65 | 43 | 37 |
| | 9 | 178 | 49 | 48 | 59 | 44 | 38 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 10.1 | 66 |
| Vocabulary | | | 10.2 | 67 |
| Reading Comprehension | | | 9.7 | 56 |
| Spelling | | | 9.9 | 58 |
| Capitalization | | | 10.1 | 58 |
| Punctuation | | | 10.1 | 61 |
| Language Usage | | | 10.2 | 61 |
| Map Reading | | | 10.0 | 64 |
| Graphs and Tables | | | 10.1 | 61 |
| Reference Materials | | | 9.8 | 58 |
| Math Concepts | | | 10.2 | 59 |
| Math Problem Solving | | | 9.6 | 55 |
| NUMBER TAKING ALL SUBTESTS | | | 316 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.4 | 46 | | |
| Vocabulary | 7.3 | 41 | | |
| Reading Comprehension | 7.3 | 43 | | |
| Spelling | 7.1 | 41 | | |
| Capitalization | 7.6 | 48 | | |
| Punctuation | 7.2 | 42 | | |
| Language Usage | 7.3 | 44 | | |
| Map Reading | 8.0 | 55 | | |
| Graphs and Tables | 7.6 | 47 | | |
| Reference Materials | 7.5 | 46 | | |
| Math Concepts | 7.4 | 43 | | |
| Math Problem Solving | 7.2 | 40 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 229 | | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.7 | 72 | 10.3 | 70 |
| Vocabulary | 8.6 | 69 | 10.3 | 69 |
| Reading Comprehension | 8.4 | 63 | 10.0 | 62 |
| Spelling | 8.5 | 63 | 9.9 | 58 |
| Capitalization | 9.0 | 68 | 10.8 | 67 |
| Punctuation | 8.9 | 69 | 10.4 | 65 |
| Language Usage | 9.0 | 69 | 10.7 | 67 |
| Map Reading | 8.9 | 72 | 10.4 | 71 |
| Graphs and Tables | 8.9 | 74 | 10.5 | 67 |
| Reference Materials | 8.8 | 70 | 10.2 | 65 |
| Math Concepts | 8.8 | 71 | 10.7 | 68 |
| Math Problem Solving | 8.5 | 69 | 10.0 | 63 |
| NUMBER TAKING ALL SUBTESTS | 278 | | 275 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 214 | 58 | 64 | 43 | 61 | 70 |
| Comprehension | 9 | 214 | 59 | 66 | 60 | 59 | 66 |
| Language Total | 7 | 215 | 62 | 71 | 40 | 63 | 73 |
| | 9 | 215 | 63 | 73 | 61 | 60 | 69 |
| Math Total | 7 | 214 | 62 | 72 | 42 | 64 | 74 |
| | 9 | 214 | 63 | 73 | 60 | 60 | 69 |
| Composite | 7 | 205 | 63 | 73 | 39 | 64 | 75 |
| | 9 | 205 | 64 | 74 | 59 | 61 | 70 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 9.2 | 48 |
| Vocabulary | | | 9.0 | 43 |
| Reading Comprehension | | | 9.0 | 45 |
| Spelling | | | 8.7 | 42 |
| Capitalization | | | 9.4 | 49 |
| Punctuation | | | 9.3 | 48 |
| Language Usage | | | 9.0 | 45 |
| Map Reading | | | 9.4 | 54 |
| Graphs and Tables | | | 9.3 | 47 |
| Reference Materials | | | 9.3 | 49 |
| Math Concepts | | | 9.3 | 45 |
| Math Problem Solving | | | 9.0 | 44 |
| NUMBER TAKING ALL SUBTESTS | | | 291 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.9 | 56 | 9.3 | 50 |
| Vocabulary | 7.9 | 54 | 9.4 | 50 |
| Reading Comprehension | 7.7 | 50 | 9.0 | 45 |
| Spelling | 7.9 | 53 | 9.0 | 45 |
| Capitalization | 8.3 | 59 | 9.4 | 49 |
| Punctuation | 7.8 | 51 | 9.1 | 45 |
| Language Usage | 7.9 | 53 | 9.3 | 49 |
| Map Reading | 8.3 | 60 | 9.3 | 52 |
| Graphs and Tables | 7.8 | 51 | 9.4 | 48 |
| Reference Materials | 7.8 | 51 | 9.3 | 49 |
| Math Concepts | 8.1 | 58 | 9.6 | 50 |
| Math Problem Solving | 7.6 | 47 | 9.1 | 46 |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 139 | | 169 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 140 | 50 | 50 | 44 | 40 | 31 |
| Comprehension | 9 | 140 | 52 | 53 | 41 | 39 | 30 |
| Language Total | 7 | 133 | 53 | 56 | 43 | 37 | 27 |
| | 9 | 133 | 53 | 56 | 40 | 42 | 35 |
| Math Total | 7 | 137 | 54 | 57 | 44 | 41 | 34 |
| | 9 | 137 | 54 | 58 | 39 | 40 | 31 |
| Composite | 7 | 129 | 53 | 56 | 42 | 39 | 30 |
| | 9 | 129 | 55 | 59 | 35 | 40 | 32 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 9.1 | 47 |
| Vocabulary | | | 9.2 | 47 |
| Reading Comprehension | | | 9.0 | 45 |
| Spelling | | | 8.8 | 43 |
| Capitalization | | | 9.1 | 44 |
| Punctuation | | | 8.8 | 41 |
| Language Usage | | | 9.2 | 48 |
| Map Reading | | | 9.2 | 50 |
| Graphs and Tables | | | 9.2 | 45 |
| Reference Materials | | | 9.2 | 47 |
| Math Concepts | | | 9.3 | 45 |
| Math-Problem Solving | | | 9.1 | 46 |
| NUMBER TAKING ALL SUBTESTS | | | 239 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|-----------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.9 | 56 | | |
| Vocabulary | 7.8 | 51 | | |
| Reading Comprehension | 7.7 | 50 | | |
| Spelling | 7.7 | 50 | | |
| Capitalization | 8.4 | 60 | | |
| Punctuation | 7.8 | 51 | | |
| Language Usage | 7.8 | 51 | | |
| Map Reading | 8.0 | 55 | | |
| Graphs and Tables | 8.1 | 58 | | |
| Reference Materials | 7.8 | 51 | | |
| Math Concepts | 8.0 | 56 | | |
| Math Problem Solving | 7.9 | 54 | | |

NUMBER TAKING ALL SUBTESTS 318

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.7 | 72 | | |
| Vocabulary | 8.5 | 67 | | |
| Reading Comprehension | 8.4 | 63 | | |
| Spelling | 8.6 | 64 | | |
| Capitalization | 9.3 | 72 | | |
| Punctuation | 9.1 | 72 | | |
| Language Usage | 9.0 | 69 | | |
| Map Reading | 9.0 | 74 | | |
| Graphs and Tables | 8.7 | 70 | | |
| Reference Materials | 8.7 | 69 | | |
| Math Concepts | 9.0 | 75 | | |
| Math Problem Solving | 8.3 | 64 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 415 | | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.6 | 50 | 9.2 | 48 |
| Vocabulary | 7.5 | 45 | 8.9 | 41 |
| Reading Comprehension | 7.2 | 41 | 8.8 | 42 |
| Spelling | 7.5 | 47 | 8.8 | 43 |
| Capitalization | 7.9 | 53 | 9.2 | 46 |
| Punctuation | 7.7 | 50 | 9.2 | 46 |
| Language Usage | 7.4 | 46 | 9.0 | 45 |
| Map Reading | 8.0 | 55 | 9.4 | 54 |
| Graphs and Tables | 7.6 | 47 | 9.2 | 45 |
| Reference Materials | 7.7 | 49 | 9.0 | 43 |
| Math Concepts | 7.8 | 51 | 9.2 | 44 |
| Math Problem Solving | 7.4 | 43 | 9.0 | 44 |
| NUMBER TAKING ALL SUBTESTS | | 286 | 273 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 234 | 48 | 47 | | 102 | 42 | 35 |
| Comprehension | 9 | 234 | 50 | 50 | | 76 | 38 | 29 |
| Language Total | 7 | 228 | 52 | 53 | | 102 | 43 | 37 |
| | 9 | 228 | 51 | 52 | | 61 | 45 | 40 |
| Math Total | 7 | 236 | 55 | 59 | | 101 | 46 | 43 |
| | 9 | 236 | 50 | 50 | | 71 | 40 | 32 |
| Composite | 7 | 211 | 53 | 55 | | 92 | 45 | 40 |
| | 9 | 211 | 52 | 54 | | 53 | 44 | 39 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.9 | 76 | 10.5 | 74 |
| Vocabulary | 8.7 | 71 | 10.3 | 69 |
| Reading Comprehension | 8.6 | 68 | 10.1 | 64 |
| Spelling | 8.7 | 66 | 10.1 | 61 |
| Capitalization | 9.5 | 75 | 10.9 | 68 |
| Punctuation | 9.3 | 75 | 10.6 | 68 |
| Language Usage | 8.7 | 64 | 10.5 | 65 |
| Map Reading | 9.1 | 76 | 10.6 | 75 |
| Graphs and Tables | 9.0 | 75 | 10.7 | 70 |
| Reference Materials | 9.0 | 74 | 10.4 | 68 |
| Math Concepts | 9.3 | 80 | 10.9 | 71 |
| Math Problem Solving | 8.7 | 74 | 10.2 | 67 |
| NUMBER TAKING ALL SUBTESTS | | 258 | 257 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 224 | 58 | 64 | 29 | 56 | 62 |
| Comprehension | 9 | 224 | 61 | 70 | 41 | 51 | 52 |
| Language Total | 7 | 221 | 64 | 74 | 27 | 61 | 70 |
| | 9 | 221 | 64 | 75 | 40 | 58 | 64 |
| Math Total | 7 | 221 | 69 | 82 | 27 | 66 | 77 |
| | 9 | 221 | 67 | 79 | 40 | 57 | 63 |
| Composite | 7 | 214 | 65 | 76 | 27 | 62 | 72 |
| | 9 | 214 | 67 | 79 | 38 | 58 | 64 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 9.9 | 62 |
| Vocabulary | | | 10.1 | 65 |
| Reading Comprehension | | | 9.7 | 56 |
| Spelling | | | 9.7 | 55 |
| Capitalization | | | 9.8 | 54 |
| Punctuation | | | 9.9 | 58 |
| Language Usage | | | 10.0 | 58 |
| Map Reading | | | 9.9 | 63 |
| Graphs and Tables | | | 9.9 | 57 |
| Reference Materials | | | 9.7 | 56 |
| Math Concepts | | | 10.1 | 58 |
| Math Problem Solving | | | 9.4 | 51 |
| NUMBER TAKING ALL SUBTESTS | | | 80 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.1 | 60 | 9.5 | 54 |
| Vocabulary | 7.8 | 51 | 9.4 | 50 |
| Reading Comprehension | 7.6 | 48 | 9.1 | 47 |
| Spelling | 8.0 | 54 | 9.4 | 51 |
| Capitalization | 8.6 | 63 | 9.9 | 54 |
| Punctuation | 7.9 | 53 | 9.7 | 54 |
| Language Usage | 8.4 | 60 | 9.7 | 54 |
| Map Reading | 8.1 | 57 | 9.5 | 56 |
| Graphs and Tables | 8.1 | 58 | 9.5 | 50 |
| Reference Materials | 8.1 | 58 | 9.6 | 55 |
| Math Concepts | 8.4 | 64 | 9.5 | 49 |
| Math Problem Solving | 8.0 | 56 | 9.2 | 48 |
| NUMBER TAKING ALL SUBTESTS | | 216 | 236 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 212 | 51 | 52 | 58 | 42 | 36 |
| Comprehension | 9 | 212 | 51 | 52 | 64 | 46 | 43 |
| Language Total | 7 | 192 | 58 | 64 | 53 | 44 | 39 |
| | 9 | 192 | 58 | 64 | 62 | 46 | 42 |
| Math Total | 7 | 200 | 58 | 64 | 56 | 43 | 37 |
| | 9 | 200 | 54 | 58 | 59 | 46 | 42 |
| Composite | 7 | 171 | 56 | 62 | 50 | 42 | 36 |
| | 9 | 171 | 56 | 61 | 51 | 45 | 41 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.2 | 62 | 10.1 | 66 |
| Vocabulary | 8.2 | 60 | 10.4 | 71 |
| Reading Comprehension | 7.9 | 54 | 9.7 | 56 |
| Spelling | 8.4 | 61 | 9.9 | 58 |
| Capitalization | 8.8 | 66 | 10.5 | 63 |
| Punctuation | 8.0 | 54 | 10.3 | 64 |
| Language Usage | 8.0 | 54 | 9.9 | 57 |
| Map Reading | 8.1 | 57 | 10.2 | 68 |
| Graphs and Tables | 8.3 | 62 | 10.2 | 62 |
| Reference Materials | 8.4 | 63 | 10.1 | 63 |
| Math Concepts | 8.4 | 64 | 10.5 | 64 |
| Math Problem Solving | 8.1 | 59 | 9.9 | 61 |
| NUMBER TAKING ALL SUBTESTS | | 165 | 202 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 159 | 56 | 62 | 52 | 48 | 46 |
| Comprehension | 9 | 159 | 57 | 63 | 44 | 49 | 49 |
| Language Total | 7 | 159 | 61 | 70 | 52 | 53 | 55 |
| | 9 | 159 | 61 | 70 | 43 | 55 | 59 |
| Math Total | 7 | 159 | 60 | 69 | 52 | 50 | 50 |
| | 9 | 159 | 63 | 73 | 44 | 52 | 54 |
| Composite | 7 | 159 | 61 | 70 | 52 | 51 | 52 |
| | 9 | 159 | 63 | 73 | 43 | 54 | 58 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|-----------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.5 | 68 | | |
| Vocabulary | 8.3 | 62 | | |
| Reading Comprehension | 8.2 | 59 | | |
| Spelling | 8.3 | 59 | | |
| Capitalization | 9.3 | 72 | | |
| Punctuation | 8.8 | 67 | | |
| Language Usage | 8.7 | 64 | | |
| Map Reading | 8.7 | 68 | | |
| Graphs and Tables | 8.6 | 68 | | |
| Reference Materials | 8.5 | 65 | | |
| Math Concepts | 8.9 | 73 | | |
| Math Problem Solving | 8.1 | 59 | | |

NUMBER TAKING ALL SUBTESTS

295

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|-----------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 9.8 | 60 |
| Vocabulary | | | 9.8 | 59 |
| Reading Comprehension | | | 9.6 | 55 |
| Spelling | | | 9.6 | 54 |
| Capitalization | | | 10.2 | 59 |
| Punctuation | | | 10.0 | 59 |
| Language Usage | | | 9.7 | 54 |
| Map Reading | | | 10.0 | 64 |
| Graphs and Tables | | | 9.8 | 56 |
| Reference Materials | | | 9.7 | 56 |
| Math Concepts | | | 9.8 | 53 |
| Math Problem Solving | | | 9.5 | 53 |

NUMBER TAKING ALL SUBTESTS

273

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 9.4 | 52 |
| Vocabulary | | | 9.3 | 49 |
| Reading Comprehension | | | 9.1 | 47 |
| Spelling | | | 8.9 | 44 |
| Capitalization | | | 9.1 | 44 |
| Punctuation | | | 9.2 | 46 |
| Language Usage | | | 9.1 | 47 |
| Map Reading | | | 9.6 | 57 |
| Graphs and Tables | | | 9.6 | 52 |
| Reference Materials | | | 9.5 | 53 |
| Math Concepts | | | 9.5 | 49 |
| Math Problem Solving | | | 9.0 | 44 |
| NUMBER TAKING ALL SUBTESTS | | | 280 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|----------------------------------|--------------------------|----------------------------------|--------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.3 | 64 | 9.3 | 62 |
| Vocabulary | 8.3 | 62 | 9.9 | 61 |
| Reading Comprehension | 8.2 | 59 | 9.6 | 55 |
| Spelling | 8.3 | 59 | 9.3 | 49 |
| Capitalization | 8.8 | 66 | 9.8 | 54 |
| Punctuation | 8.4 | 61 | 9.7 | 54 |
| Language Usage | 8.3 | 58 | 9.8 | 55 |
| Map Reading | 8.5 | 64 | 10.1 | 66 |
| Graphs and Tables | 8.4 | 64 | 10.0 | 59 |
| Reference Materials | 8.8 | 61 | 9.9 | 60 |
| Math Concepts | 8.6 | 68 | 10.0 | 56 |
| Math Problem Solving | 8.1 | 59 | 9.6 | 55 |
| NUMBER TAKING ALL SUBTESTS | 309 | | 267 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 201 | 56 | 62 | 93 | 47 | 45 |
| Comprehension | 9 | 201 | 58 | 65 | 82 | 49 | 48 |
| Language Total | 7 | 200 | 58 | 65 | 92 | 49 | 48 |
| | 9 | 200 | 57 | 63 | 80 | 47 | 45 |
| Math Total | 7 | 192 | 59 | 67 | 91 | 47 | 44 |
| | 9 | 192 | 59 | 66 | 79 | 50 | 50 |
| Composite | 7 | 183 | 60 | 69 | 88 | 50 | 50 |
| | 9 | 183 | 61 | 70 | 76 | 51 | 51 |

TEST RESULTS (1979-80): NEWPORT MIDDLE SCHOOL 792

(AREA 1)

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|-----------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.8 | 54 | | |
| Vocabulary | 7.9 | 54 | | |
| Reading Comprehension | 7.7 | 50 | | |
| Spelling | 7.7 | 50 | | |
| Capitalization | 8.1 | 56 | | |
| Punctuation | 7.8 | 51 | | |
| Language Usage | 7.9 | 53 | | |
| Map Reading | 7.9 | 53 | | |
| Graphs and Tables | 8.1 | 58 | | |
| Reference Materials | 8.1 | 58 | | |
| Math Concepts | 7.8 | 51 | | |
| Math Problem Solving | 7.5 | 45 | | |

NUMBER TAKING ALL SUBTESTS

207

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.8 | 74 | 10.1 | 66 |
| Vocabulary | 8.6 | 69 | 10.0 | 63 |
| Reading Comprehension | 8.5 | 65 | 9.8 | 58 |
| Spelling | 8.6 | 64 | 9.8 | 57 |
| Capitalization | 9.3 | 72 | 10.3 | 61 |
| Punctuation | 9.1 | 72 | 10.3 | 64 |
| Language Usage | 9.0 | 69 | 10.2 | 61 |
| Map Reading | 9.1 | 76 | 10.3 | 70 |
| Graphs and Tables | 8.9 | 74 | 10.3 | 64 |
| Reference Materials | 8.8 | 70 | 10.1 | 63 |
| Math Concepts | 8.8 | 71 | 10.3 | 61 |
| Math Problem Solving | 8.5 | 69 | 10.1 | 65 |
| NUMBER TAKING ALL SUBTESTS | | 195 | 243 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 176 | 60 | 69 | 59 | 53 | 55 |
| Comprehension | 9 | 176 | 60 | 69 | 70 | 51 | 51 |
| Language Total | 7 | 175 | 64 | 75 | 59 | 55 | 60 |
| | 9 | 175 | 62 | 71 | 69 | 54 | 58 |
| Math Total | 7 | 175 | 65 | 76 | 59 | 55 | 59 |
| | 9 | 175 | 64 | 74 | 70 | 56 | 61 |
| Composite | 7 | 172 | 65 | 76 | 59 | 55 | 60 |
| | 9 | 172 | 64 | 74 | 68 | 54 | 58 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.0 | 58 | 9.5 | 54 |
| Vocabulary | 7.7 | 49 | 9.5 | 52 |
| Reading Comprehension | 7.7 | 50 | 9.2 | 48 |
| Spelling | 7.9 | 53 | 9.8 | 57 |
| Capitalization | 8.6 | 63 | 10.3 | 61 |
| Punctuation | 8.4 | 61 | 10.1 | 61 |
| Language Usage | 8.1 | 55 | 9.4 | 50 |
| Map Reading | 8.3 | 60 | 9.8 | 61 |
| Graphs and Tables | 8.1 | 58 | 9.5 | 50 |
| Reference Materials | 8.0 | 56 | 9.5 | 53 |
| Math Concepts | 8.3 | 62 | 9.4 | 47 |
| Math Problem Solving | 7.8 | 52 | 9.4 | 51 |
| NUMBER TAKING ALL SUBTESTS | | 226 | 268 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 211 | 51 | 52 | 44 | 46 | 43 |
| Comprehension | 9 | 211 | 51 | 52 | 63 | 47 | 44 |
| Language Total | 7 | 209 | 55 | 60 | 43 | 46 | 42 |
| | 9 | 209 | 59 | 66 | 62 | 52 | 53 |
| Math Total | 7 | 211 | 56 | 62 | 44 | 45 | 40 |
| | 9 | 211 | 53 | 55 | 63 | 48 | 47 |
| Composite | 7 | 206 | 55 | 60 | 43 | 45 | 41 |
| | 9 | 206 | 55 | 60 | 61 | 49 | 48 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.6 | 50 | 8.9 | 43 |
| Vocabulary | 7.5 | 45 | 8.6 | 36 |
| Reading Comprehension | 7.4 | 45 | 8.5 | 37 |
| Spelling | 7.4 | 45 | 8.1 | 34 |
| Capitalization | 7.8 | 51 | 9.0 | 43 |
| Punctuation | 7.4 | 45 | 8.7 | 40 |
| Language Usage | 7.4 | 46 | 8.2 | 36 |
| Map Reading | 7.8 | 51 | 8.9 | 45 |
| Graphs and Tables | 7.5 | 45 | 8.7 | 37 |
| Reference Materials | 7.9 | 53 | 8.9 | 41 |
| Math Concepts | 7.9 | 53 | 8.9 | 39 |
| Math Problem Solving | 7.5 | 45 | 8.9 | 39 |
| NUMBER TAKING ALL SUBTESTS | 122 | | 97 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 93 | 46 | 42 | 24 | 38 | 28 |
| Comprehension | 9 | 93 | 44 | 39 | 22 | 42 | 36 |
| Language Total | 7 | 85 | 45 | 41 | 23 | 41 | 33 |
| | 9 | 85 | 44 | 38 | 22 | 41 | 33 |
| Math Total | 7 | 88 | 48 | 46 | 25 | 39 | 30 |
| | 9 | 88 | 45 | 41 | 19 | 45+ | 40 |
| Composite | 7 | 73 | 50 | 50 | 18 | 40 | 32 |
| | 9 | 73 | 48 | 47 | 17 | 46 | 42 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 9.3 | 83 | 10.5 | 74 |
| Vocabulary | 9.1 | 78 | 10.5 | 73 |
| Reading Comprehension | 9.0 | 76 | 10.1 | 64 |
| Spelling | 9.0 | 71 | 10.1 | 61 |
| Capitalization | 9.5 | 75 | 10.7 | 66 |
| Punctuation | 9.4 | 76 | 10.6 | 68 |
| Language Usage | 9.6 | 78 | 10.8 | 69 |
| Map Reading | 9.6 | 85 | 10.5 | 73 |
| Graphs and Tables | 9.4 | 81 | 10.7 | 70 |
| Reference Materials | 9.2 | 77 | 10.4 | 68 |
| Math Concepts | 9.7 | 86 | 10.8 | 69 |
| Math Problem Solving | 9.3 | 84 | 10.6 | 76 |
| NUMBER TAKING ALL SUBTESTS | 292 | | 324 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 258 | 62 | 72 | 54 | 59 | 66 |
| Comprehension | 9 | 258 | 61 | 70 | 64 | 57 | 63 |
| Language Total | 7 | 256 | 64 | 75 | 54 | 60 | 69 |
| | 9 | 256 | 64 | 75 | 64 | 60 | 68 |
| Math Total | 7 | 256 | 67 | 79 | 54 | 62 | 72 |
| | 9 | 256 | 67 | 79 | 64 | 65 | 76 |
| Composite | 7 | 255 | 66 | 78 | 54 | 62 | 72 |
| | 9 | 255 | 66 | 78 | 63 | 62 | 72 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.5 | 48 | 8.6 | 38 |
| Vocabulary | 7.6 | 47 | 8.9 | 41 |
| Reading Comprehension | 7.1 | 39 | 8.3 | 34 |
| Spelling | 7.5 | 47 | 8.5 | 39 |
| Capitalization | 8.1 | 56 | 9.0 | 43 |
| Punctuation | 7.9 | 53 | 9.1 | 45 |
| Language Usage | 7.2 | 43 | 8.4 | 38 |
| Map Reading | 7.4 | 44 | 8.7 | 42 |
| Graphs and Tables | 7.5 | 45 | 8.5 | 34 |
| Reference Materials | 7.5 | 46 | 8.7 | 40 |
| Math Concepts | 7.6 | 47 | 8.7 | 32 |
| Math Problem Solving | 7.2 | 40 | 8.4 | 34 |
| NUMBER TAKING ALL SUBTESTS | | 118 | 137 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 98 | 39 | 30 | 79 | 42 | 36 |
| Comprehension | 9 | 98 | 43 | 37 | 43 | 38 | 28 |
| Language Total | 7 | 97 | 50 | 50 | 76 | 48 | 46 |
| | 9 | 97 | 48 | 47 | 41 | 40- | 32 |
| Math Total | 7 | 93 | 44 | 39 | 78 | 46 | 43 |
| | 9 | 93 | 43 | 37 | 41 | 37 | 27 |
| Composite | 7 | 91 | 48 | 46 | 73 | 49 | 48 |
| | 9 | 91 | 47 | 44 | 41 | 37- | 27 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.1 | 60 | | |
| Vocabulary | 8.2 | 60 | | |
| Reading Comprehension | 7.9 | 54 | | |
| Spelling | 7.9 | 53 | | |
| Capitalization | 8.0 | 54 | | |
| Punctuation | 7.9 | 53 | | |
| Language Usage | 8.0 | 54 | | |
| Map Reading | 8.2 | 59 | | |
| Graphs and Tables | 8.3 | 62 | | |
| Reference Materials | 8.3 | 61 | | |
| Math Concepts | 8.2 | 60 | | |
| Math Problem Solving | 7.9 | 54 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 284 | | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.8 | 54 | 9.2 | 48 |
| Vocabulary | 7.9 | 54 | 9.0 | 43 |
| Reading Comprehension | 7.6 | 48 | 8.9 | 44 |
| Spelling | 7.5 | 47 | 9.0 | 45 |
| Capitalization | 7.7 | 50 | 9.2 | 46 |
| Punctuation | 7.7 | 50 | 9.3 | 48 |
| Language Usage | 7.7 | 50 | 9.1 | 47 |
| Map Reading | 7.7 | 50 | 9.2 | 50 |
| Graphs and Tables | 7.9 | 53 | 9.4 | 48 |
| Reference Materials | 7.9 | 53 | 9.3 | 49 |
| Math Concepts | 8.1 | 58 | 9.4 | 47 |
| Math Problem Solving | 7.7 | 49 | 9.0 | 44 |
| NUMBER TAKING ALL SUBTESTS | 367 | | 369 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 274 | 48 | 47 | 119 | 45 | 40 |
| Comprehension | 9 | 274 | 49 | 48 | 114 | 44 | 38 |
| Language Total | 7 | 270 | 52 | 53 | 114 | 46 | 43 |
| | 9 | 270 | 52 | 53 | 111 | 45 | 40 |
| Math Total | 7 | 269 | 53 | 55 | 118 | 48 | 46 |
| | 9 | 269 | 51 | 52 | 114 | 46 | 42 |
| Composite | 7 | 258 | 52 | 53 | 112 | 47 | 44 |
| | 9 | 258 | 52 | 53 | 101 | 46 | 43 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 9.1 | 47 |
| Vocabulary | | | 9.1 | 45 |
| Reading Comprehension | | | 8.9 | 44 |
| Spelling | | | 8.8 | 43 |
| Capitalization | | | 9.2 | 46 |
| Punctuation | | | 9.2 | 46 |
| Language Usage | | | 9.0 | 45 |
| Map Reading | | | 9.1 | 49 |
| Graphs and Tables | | | 9.0 | 42 |
| Reference Materials | | | 9.1 | 45 |
| Math Concepts | | | 9.0 | 41 |
| Math Problem Solving | | | 8.7 | 39 |
| NUMBER TAKING ALL SUBTESTS | | | 175 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE , | | | 9.4 | 52 |
| Vocabulary | | | 9.5 | 52 |
| Reading Comprehension | | | 9.3 | 50 |
| Spelling | | | 9.0 | 45 |
| Capitalization | | | 9.2 | 46 |
| Punctuation | | | 9.2 | 46 |
| Language Usage | | | 9.0 | 45 |
| Map Reading | | | 9.6 | 57 |
| Graphs and Tables | | | 9.7 | 54 |
| Reference Materials | | | 9.3 | 49 |
| Math Concepts | | | 9.3 | 45 |
| Math Problem Solving | | | 9.2 | 48 |
| NUMBER TAKING ALL SUBTESTS | | | 343 | |

* Mean for the national norm group for the Composite score

TEST RESULTS (1979-80): SLIGO JUNIOR HIGH SCHOOL 778

(AREA 2)

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.8 | 54 | 9.1 | 47 |
| Vocabulary | 7.7 | 49 | 9.0 | 43 |
| Reading Comprehension | 7.6 | 48 | 8.7 | 40 |
| Spelling | 7.4 | 45 | 8.9 | 44 |
| Capitalization | 7.8 | 51 | 9.1 | 44 |
| Punctuation | 7.9 | 53 | 9.2 | 46 |
| Language Usage | 7.6 | 48 | 8.9 | 44 |
| Map Reading | 7.7 | 50 | 9.1 | 49 |
| Graphs and Tables | 7.7 | 49 | 9.2 | 45 |
| Reference Materials | 7.9 | 53 | 9.2 | 47 |
| Math Concepts | 8.0 | 56 | 9.3 | 45 |
| Math Problem Solving | 7.6 | 47 | 8.9 | 42 |
| NUMBER TAKING ALL SUBTESTS | | 231 | 261 | |

*Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 189 | 50 | 50 | 66 | 44 | 38 |
| Comprehension | 9 | 189 | 49 | 49 | 85 | 39 | 30 |
| Language Total | 7 | 187 | 51 | 51 | 64 | 43 | 37 |
| | 9 | 187 | 52 | 53 | 84 | 40 | 31 |
| Math Total | 7 | 186 | 53 | 56 | 63 | 45 | 40 |
| | 9 | 186 | 51 | 52 | 81 | 41 | 34 |
| Composite | 7 | 180 | 52 | 53 | 63 | 44 | 38 |
| | 9 | 180 | 52 | 54 | 76 | 41 | 33 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 7.2 | 42 | 8.2 | 31 |
| Vocabulary | 7.2 | 40 | 8.3 | 31 |
| Reading Comprehension | 7.0 | 37 | 7.9 | 28 |
| Spelling | 7.3 | 44 | 8.3 | 36 |
| Capitalization | 7.5 | 47 | 8.7 | 39 |
| Punctuation | 7.2 | 42 | 8.4 | 36 |
| Language Usage | 7.2 | 43 | 8.4 | 38 |
| Map Reading | 7.4 | 44 | 8.0 | 31 |
| Graphs and Tables | 7.4 | 43 | 8.4 | 33 |
| Reference Materials | 7.4 | 44 | 8.1 | 30 |
| Math Concepts | 7.3 | 41 | 8.3 | 31 |
| Math Problem Solving | 6.9 | 34 | 8.0 | 29 |
| NUMBER TAKING ALL SUBTESTS | | 164 | 170 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 119 | 37 | 27 | 87 | 40 | 31 |
| Comprehension | 9 | 119 | 41 | 34 | 51 | 32 | 19 |
| Language Total | 7 | 118 | 45 | 41 | 87 | 42 | 36 |
| | 9 | 118 | 46 | 43 | 51 | 36 | 25 |
| Math Total | 7 | 119 | 41 | 33 | 87 | 34 | 22 |
| | 9 | 119 | 41 | 33 | 51 | 29 | 16 |
| Composite | 7 | 118 | 40 | 32 | 87 | 38 | 28 |
| | 9 | 118 | 42 | 36 | 51 | 31 | 18 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.8 | 74 | 10.4 | 72 |
| Vocabulary | 8.6 | 69 | 10.2 | 67 |
| Reading Comprehension | 8.4 | 63 | 10.1 | 64 |
| Spelling | 8.6 | 64 | 10.2 | 63 |
| Capitalization | 9.3 | 72 | 11.1 | 71 |
| Punctuation | 9.0 | 70 | 10.9 | 72 |
| Language Usage | 8.9 | 67 | 10.6 | 66 |
| Map Reading | 9.0 | 74 | 10.5 | 73 |
| Graphs and Tables | 8.9 | 74 | 10.4 | 65 |
| Reference Materials | 8.8 | 70 | 10.3 | 67 |
| Math Concepts | 9.1 | 76 | 10.6 | 66 |
| Math Problem Solving | 8.8 | 76 | 10.1 | 65 |
| NUMBER TAKING ALL SUBTESTS | | 181 | 236 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 177 | 61 | 70 | 29 | 54 | 58 |
| Comprehension | 9 | 177 | 62 | 72 | 62 | 53 | 55 |
| Language Total | 7 | 184 | 70 | 83 | 29 | 62 | 72 |
| | 9 | 184 | 67 | 79 | 61 | 56 | 62 |
| Math Total | 7 | 180 | 67 | 79 | 30 | 57 | 63 |
| | 9 | 180 | 65 | 76 | 58 | 56 | 61 |
| Composite | 7 | 170 | 68 | 81 | 28 | 58 | 65 |
| | 9 | 170 | 67 | 79 | 57 | 55 | 59 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.3 | 64 | | |
| Vocabulary | 8.0 | 56 | | |
| Reading Comprehension | 8.0 | 56 | | |
| Spelling | 7.9 | 53 | | |
| Capitalization | 8.8 | 66 | | |
| Punctuation | 8.6 | 64 | | |
| Language Usage | 8.2 | 57 | | |
| Map Reading | 8.8 | 70 | | |
| Graphs and Tables | 8.6 | 68 | | |
| Reference Materials | 8.4 | 63 | | |
| Math Concepts | 8.5 | 66 | | |
| Math Problem Solving | 8.1 | 59 | | |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 200 | | | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 9.1 | 80 | 10.6 | 76 |
| Vocabulary | 9.1 | 78 | 10.7 | 77 |
| Reading Comprehension | 8.7 | 70 | 10.4 | 70 |
| Spelling | 8.9 | 70 | 10.2 | 63 |
| Capitalization | 9.6 | 76 | 11.0 | 70 |
| Punctuation | 9.6 | 79 | 10.7 | 70 |
| Language Usage | 9.7 | 79 | 10.8 | 69 |
| Map Reading | 9.3 | 80 | 10.6 | 75 |
| Graphs and Tables | 9.3 | 80 | 10.6 | 68 |
| Reference Materials | 9.1 | 75 | 10.7 | 73 |
| Math Concepts | 9.1 | 76 | 10.7 | 68 |
| Math Problem Solving | 8.6 | 72 | 10.4 | 72 |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 174 | | 189 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | Grade | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| | | | | | | | |
| Reading | 7 | 135 | 62 | 72 | 81 | 57 | 63 |
| Comprehension | 9 | 135 | 65 | 76 | 58 | 58 | 65 |
| Language Total | 7 | 134 | 68 | 81 | 79 | 63 | 73 |
| | 9 | 134 | 68 | 81 | 58 | 60 | 69 |
| Math Total | 7 | 135 | 68 | 81 | 81 | 59 | 66 |
| | 9 | 135 | 68 | 80 | 58 | 60 | 68 |
| Composite | 7 | 131 | 68 | 81 | 79 | 61 | 70 |
| | 9 | 131 | 70 | 83 | 56 | 62 | 72 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.4 | 66 | 9.6 | 56 |
| Vocabulary | 8.2 | 60 | 9.7 | 57 |
| Reading Comprehension | 8.1 | 58 | 9.4 | 51 |
| Spelling | 8.4 | 61 | 9.4 | 51 |
| Capitalization | 8.6 | 63 | 10.2 | 59 |
| Punctuation | 8.4 | 61 | 10.1 | 61 |
| Language Usage | 8.4 | 60 | 9.6 | 53 |
| Map Reading | 8.8 | 70 | 9.8 | 61 |
| Graphs and Tables | 8.6 | 68 | 9.8 | 56 |
| Reference Materials | 8.6 | 67 | 9.7 | 56 |
| Math Concepts | 8.5 | 66 | 9.6 | 50 |
| Math Problem Solving | 8.2 | 62 | 9.3 | 50 |
| NUMBER TAKING ALL SUBTESTS | 286 | | 325 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|---|----------|-------------------------|--|----------|-------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 261 | 55 | 60 | 41 | 50 | 50 |
| Comprehension | 9 | 261 | 54 | 58 | 68 | 46 | 43 |
| Language Total | 7 | 260 | 57 | 63 | 41 | 48 | 47 |
| | 9 | 260 | 58 | 64 | 69 | 50 | 50 |
| Math Total | 7 | 259 | 56 | 62 | 41 | 52 | 53 |
| | 9 | 259 | 54 | 58 | 67 | 45 | 40 |
| Composite | 7 | 258 | 57 | 63 | 41 | 50 | 50 |
| | 9 | 258 | 57 | 63 | 67 | 48 | 46 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | 8.8 | 74 | 10.3 | 70 |
| Vocabulary | 8.6 | 69 | 10.3 | 69 |
| Reading Comprehension | 8.4 | 63 | 10.0 | 62 |
| Spelling | 8.8 | 68 | 10.0 | 60 |
| Capitalization | 9.5 | 75 | 10.7 | 66 |
| Punctuation | 9.3 | 75 | 10.7 | 70 |
| Language Usage | 9.0 | 69 | 10.4 | 63 |
| Map Reading | 9.0 | 74 | 10.6 | 75 |
| Graphs and Tables | 8.9 | 74 | 10.5 | 67 |
| Reference Materials | 8.9 | 72 | 10.4 | 68 |
| Math Concepts | 9.2 | 78 | 10.7 | 68 |
| Math Problem Solving | 8.7 | 74 | 10.2 | 67 |
| ----- | | | | |
| NUMBER TAKING ALL SUBTESTS | 319 | | 317 | |

* Mean for the national norm group for the Composite score

LONGITUDINAL DATA 1978 (GRADE 7) AND 1980 (GRADE 9): IOWA TESTS OF BASIC SKILLS

| | Grade | Students Tested in This School Both Years | | | Students Tested in This School Only One Year | | |
|----------------|-------|--|-------------|-------------------------------|---|-------------|-------------------------------|
| | | Number Taking Test | NCE Mean | Percentile Rank of Mean | Number Taking Test | NCE Mean | Percentile Rank of Mean |
| Reading | 7 | 255 | 59 | 66 | 96 | 55 | 59 |
| Comprehension | 9 | 255 | 60 | 68 | 56 | 51 | 52 |
| Language Total | 7 | 255 | 64 | 75 | 96 | 59 | 67 |
| | 9 | 255 | 63 | 73 | 54 | 59 | 66 |
| Math Total | 7 | 256 | 66 | 78 | 96 | 63 | 73 |
| | 9 | 256 | 66 | 77 | 56 | 55 | 60 |
| Composite | 7 | 254 | 64 | 75 | 96 | 61 | 70 |
| | 9 | 254 | 65 | 76 | 54 | 57 | 63 |

SCHOOL MEAN SCORES: IOWA TESTS OF BASIC SKILLS

| | Grade 7 | | Grade 9 | |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | Grade Equivalent Score (7.6)* | Percentile Rank (50)* | Grade Equivalent Score (9.6)* | Percentile Rank (56)* |
| COMPOSITE | | | 10.2 | 68 |
| Vocabulary | | | 10.3 | 69 |
| Reading Comprehension | | | 10.0 | 62 |
| Spelling | | | 9.9 | 58 |
| Capitalization | | | 10.4 | 62 |
| Punctuation | | | 10.2 | 62 |
| Language Usage | | | 10.3 | 62 |
| Map Reading | | | 10.2 | 68 |
| Graphs and Tables | | | 10.4 | 65 |
| Reference Materials | | | 10.3 | 67 |
| Math Concepts | | | 10.4 | 63 |
| Math Problem Solving | | | 10.1 | 65 |
| NUMBER TAKING ALL SUBTESTS | | | 402 | |

* Mean for the national norm group for the Composite score

TEST RESULTS (1979-80): BETHESDA CHEVY CHASE HIGH SCHOOL 406 (AREA 1)

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 57 | 74 |
| Social Studies | 56 | 67 |
| Mechanics of English | 57 | 71 |
| Science | 56 | 72 |
| Reading | 57 | 73 |
| Mathematics | 59 | 81 |
| Literature | 57 | 71 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 370 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 49 | 43 |
| Social Studies | 47 | 34 |
| Mechanics of English | 49 | 43 |
| Science | 50 | 49 |
| Reading | 48 | 39 |
| Mathematics | 50 | 49 |
| Literature | 48 | 38 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 455 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 57 | 74 |
| Social Studies | 54 | 61 |
| Mechanics of English | 57 | 71 |
| Science | 57 | 74 |
| Reading | 56 | 70 |
| Mathematics | 59 | 81 |
| Literature | 55 | 65 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 507 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 52 | 55 |
| Social Studies | 50 | 46 |
| Mechanics of English | 52 | 55 |
| Science | 54 | 64 |
| Reading | 51 | 50 |
| Mathematics | 53 | 60 |
| Literature | 52 | 55 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 268 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 51 | 52 |
| Social Studies | 51 | 51 |
| Mechanics of English | 52 | 55 |
| Science | 50 | 49 |
| Reading | 50 | 47 |
| Mathematics | 52 | 57 |
| Literature | 51 | 50 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 235 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 53 | 59 |
| Social Studies | 51 | 51 |
| Mechanics of English | 52 | 55 |
| Science | 53 | 61 |
| Reading | 52 | 55 |
| Mathematics | 53 | 60 |
| Literature | 52 | 55 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 313 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 56 | 71 |
| Social Studies | 55 | 64 |
| Mechanics of English | 56 | 68 |
| Science | 56 | 72 |
| Reading | 56 | 70 |
| Mathematics | 57 | 74 |
| Literature | 55 | 65 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 347 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 53 | 59 |
| Social Studies | 52 | 54 |
| Mechanics of English | 52 | 55 |
| Science | 54 | 64 |
| Reading | 52 | 55 |
| Mathematics | 54 | 64 |
| Literature | 51 | 50 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 339 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 54 | 63 |
| Social Studies | 53 | 58 |
| Mechanics of English | 53 | 58 |
| Science | 54 | 64 |
| Reading | 53 | 60 |
| Mathematics | 56 | 71 |
| Literature | 53 | 57 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 330 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 52 | 55 |
| Social Studies | 50 | 46 |
| Mechanics of English | 52 | 55 |
| Science | 52 | 56 |
| Reading | 51 | 50 |
| Mathematics | 52 | 57 |
| Literature | 52 | 55 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 332 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|--------------------------|-----------------------------|
| | Standard Score- (50)* | Percentile Rank (47)* |
| COMPOSITE | 53 | 59 |
| Social Studies | 52 | 54 |
| Mechanics of English | 52 | 55 |
| Science | 53 | 61 |
| Reading | 52 | 55 |
| Mathematics | 54 | 64 |
| Literature | 52 | 55 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 350 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 52 | 55 |
| Social Studies | 51 | 51 |
| Mechanics of English | 52 | 55 |
| Science | 52 | 56 |
| Reading | 51 | 50 |
| Mathematics | 53 | 60 |
| Literature | 51 | 50 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 31 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 54 | 63 |
| Social Studies | 53 | 58 |
| Mechanics of English | 54 | 62 |
| Science | 55 | 69 |
| Reading | 53 | 60 |
| Mathematics | 56 | 71 |
| Literature | 54 | 61 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 422 | |

* Mean for the national norm group for the Composite score

TEST RESULTS (1979-80): POOLESVILLE JUNIOR-SENIOR HIGH SCHOOL .152 (AREA 5)

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 50 | 47 |
| Social Studies | 48 | 39 |
| Mechanics of English | 48 | 40 |
| Science | 52 | 56 |
| Reading | 49 | 43 |
| Mathematics | 50 | 49 |
| Literature | 50 | 46 |

NUMBER TAKING ALL SUBTESTS

107

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 54 | 63 |
| Social Studies | 51 | 51 |
| Mechanics of English | 53 | 58 |
| Science | 54 | 64 |
| Reading | 53 | 60 |
| Mathematics | 56 | 71 |
| Literature | 54 | 61 |
| NUMBER TAKING ALL SUBTESTS | | 386 |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|-----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 52 | 55 |
| Social Studies | 51 | 51 |
| Mechanics of English | 52 | 55 |
| Science | 52 | 56 |
| Reading | 51 | 50 |
| Mathematics | 53 | 60 |
| Literature | 52 | 55 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS. | 387 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 51 | 52 |
| Social Studies | 50 | 46 |
| Mechanics of English | 51 | 51 |
| Science | 51 | 52 |
| Reading | 51 | 50 |
| Mathematics | 52 | 57 |
| Literature | 50 | 46 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 299 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 55 | 67 |
| Social Studies | 53 | 58 |
| Mechanics of English | 56 | 68 |
| Science | 55 | 69 |
| Reading | 54 | 64 |
| Mathematics | 56 | 71 |
| Literature | 55 | 65 |
| NUMBER TAKING ALL SUBTESTS | | 493 |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 50 | 47 |
| Social Studies | 49 | 43 |
| Mechanics of English | 49 | 43 |
| Science | 50 | 49 |
| Reading | 49 | 43 |
| Mathematics | 51 | 53 |
| Literature | 49 | 42 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 372 | |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 59 | 82 |
| Social Studies | 59 | 77 |
| Mechanics of English | 58 | 75 |
| Science | 58 | 77 |
| Reading | 58 | 76 |
| Mathematics | 61 | 86 |
| Literature | 58 | 73 |
| NUMBER TAKING ALL SUBTESTS | | 556 |

* Mean for the national norm group for the Composite score

TEST RESULTS (1979-80): CHARLES W. WOODWARD HIGH SCHOOL 222 (AREA 3)

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 58 | 77 |
| Social Studies | 56 | 67 |
| Mechanics of English | 59 | 78 |
| Science | 59 | 80 |
| Reading | 56 | 70 |
| Mathematics | 60 | 83 |
| Literature | 57 | 71 |
| NUMBER TAKING ALL SUBTESTS | | 256 |

* Mean for the national norm group for the Composite score

SCHOOL MEAN SCORES: TESTS OF ACADEMIC PROGRESS

| | Grade 11 | |
|----------------------------|-------------------------|-----------------------------|
| | Standard Score (50)* | Percentile Rank (47)* |
| COMPOSITE | 57 | 74 |
| Social Studies | 55 | 64 |
| Mechanics of English | 57 | 71 |
| Science | 56 | 72 |
| Reading | 55 | 67 |
| Mathematics | 59 | 81 |
| Literature | 56 | 68 |
| ----- | | |
| NUMBER TAKING ALL SUBTESTS | 397 | |

* Mean for the national norm group for the Composite score

2.B. SCHOOL INTERQUARTILE RANGES

Introduction

The interquartile range provides an indication of how the middle 50 percent of the students in a group performed on a test. These could be said to be the typical students in that school. These data provide an indication of what types of programs might be appropriate for a given school. For example, if the entire range is above the 90th percentile rank, it is an indication the school should provide programs for large numbers of students with similar ability. If the range is wide, say from the 30th to the 80th percentile rank, the school has to be equipped to meet the needs of students of highly variable ability levels.

Data

The figures on the following pages indicate the national percentile rank for the student at each school's first quartile (Q1), median, and third quartile (Q3) on the ITBS or TAP Composite. The score at the left end of the bar is Q1, the score at the right end is Q3, and the one in the middle is the median. The Composite score is a general performance indicator and provides data on which to judge the dispersion of achievement in a given school. At the end of this section, the quartile graphs for the county are provided.

These can be used to see how a range for a specific school fits into the range for the entire county.

Schools are listed in alphabetical order for each grade. The first page for each grade follows:

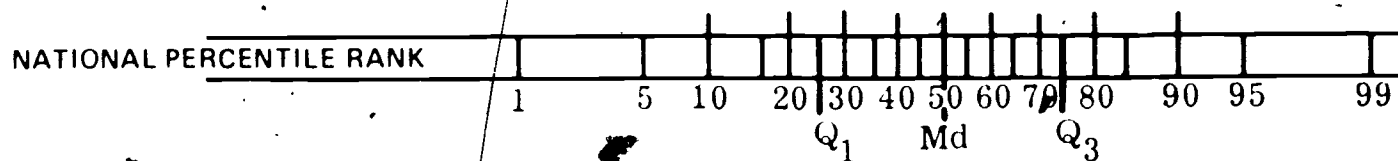
| | | |
|--------------------|---|----------|
| Grade 3 Composite | - | Page 268 |
| Grade 5 Composite | - | Page 277 |
| Grade 7 Composite | - | Page 285 |
| Grade 9 Composite | - | Page 287 |
| Grade 11 Composite | - | Page 290 |
| County Graphs | - | Page 292 |

The national percentile rank scale at the top of each page is provided to show the characteristics of percentile ranks in a normal distribution. It should be noted that at the extremes of the distribution, percentile ranks are separated by more raw-score points than are the percentile ranks in the middle of the distribution. That is, an increase (or decrease) of ten percentile rank units at the extremes represents a greater change in raw-score points than does an increase (or decrease) of ten percentile rank units in the middle of the scale.

Analysis

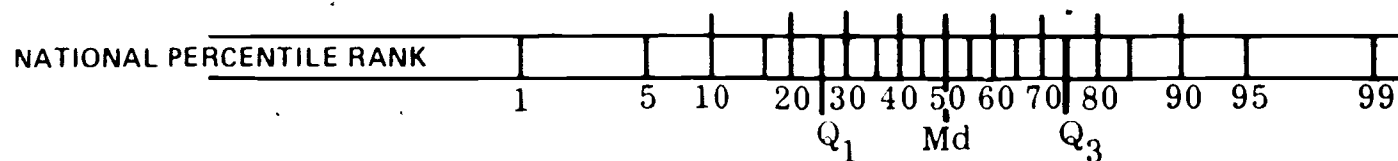
No formal statistical analyses were performed. The data are descriptive.

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980**



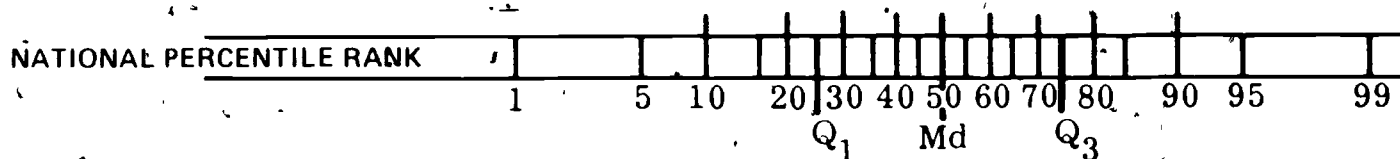
| SCHOOL NAME | AREA | |
|--------------------------|------|----------|
| ARCOLA ELEMENTARY | 2 | 46 62 81 |
| ASHBURTON ELEMENTARY | 1 | 76 88 97 |
| AYRLAWN ELEMENTARY | 1 | 71 83 97 |
| BANNOCKBURN ELEMENTARY | 1 | 73 88 95 |
| LUCY BARNSLEY ELEMENTARY | 4 | 58 81 91 |
| BEL PRE ELEMENTARY | 2 | 30 58 81 |
| BELLS MILL ELEMENTARY | 3 | 76 88 96 |
| BELMONT ELEMENTARY | 4 | 68 83 91 |
| BETHESDA ELEMENTARY | 1 | 73 90 95 |
| BEVERLY FARMS ELEMENTARY | 3 | 68 90 96 |
| BRADLEY ELEMENTARY | 1 | 81 93 98 |
| BROAD ACRES ELEMENTARY | 2 | 17 38 52 |
| BROOKHAVEN ELEMENTARY | 4 | 58 76 91 |
| BROOKMONT ELEMENTARY | 1 | 83 90 96 |
| BROOKVIEW ELEMENTARY | 2 | 26 55 83 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980 (Continued)**



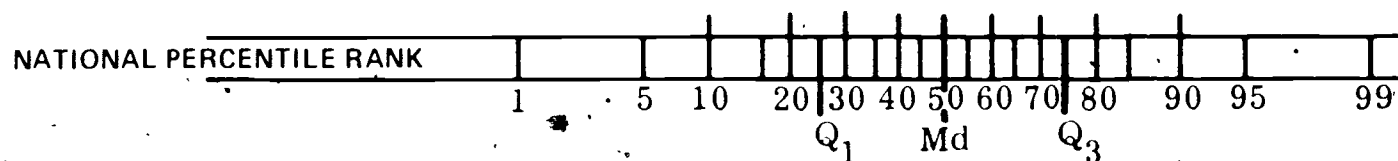
| SCHOOL NAME | AREA | | | |
|------------------------------|------|----|----|----|
| BROWN STATION ELEMENTARY | 5 | 52 | 73 | 83 |
| BURNING TREE ELEMENTARY | 1 | 79 | 93 | 98 |
| BURTONSVILLE ELEMENTARY | 4 | 46 | 81 | 90 |
| CANDLEWOOD ELEMENTARY | 4 | 58 | 81 | 94 |
| CANNON ROAD ELEMENTARY | 2 | 49 | 79 | 94 |
| CARDEROCK SPRINGS ELEMENTARY | 1 | 73 | 94 | 98 |
| CASHELL ELEMENTARY | 4 | 42 | 73 | 86 |
| CEDAR GROVE ELEMENTARY | 5 | 62 | 83 | 93 |
| CHEVY CHASE ELEMENTARY | 1 | 65 | 86 | 95 |
| CLARKSBURG ELEMENTARY | 5 | 38 | 68 | 83 |
| CLOVERLY ELEMENTARY | 4 | 58 | 81 | 91 |
| COLD SPRING ELEMENTARY | 3 | 71 | 86 | 94 |
| COLLEGE GARDENS ELEMENTARY | 3 | 65 | 83 | 93 |
| CONGRESSIONAL ELEMENTARY | 3 | 52 | 68 | 88 |
| CONNECTICUT PARK ELEMENTARY | 4 | 52 | 73 | 90 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980 (Continued)**



| SCHOOL NAME | AREA | | | |
|-------------------------------|------|----|----|----|
| CRESTHAVEN ELEMENTARY | 2 | 62 | 83 | 91 |
| DAMASCUS ELEMENTARY | 5 | 65 | 83 | 94 |
| DARNESTOWN ELEMENTARY | 5 | 73 | 83 | 96 |
| DIAMOND ELEMENTARY | 5 | 71 | 88 | 94 |
| DUFIEF ELEMENTARY | 3 | 65 | 83 | 91 |
| EAST SILVER SPRING ELEMENTARY | 2 | 38 | 65 | 88 |
| ENGLISH MANOR ELEMENTARY | 4 | 62 | 79 | 88 |
| FAIRLAND ELEMENTARY | 4 | 68 | 81 | 93 |
| FALLSMEAD ELEMENTARY | 3 | 73 | 86 | 95 |
| FARMLAND ELEMENTARY | 3 | | 90 | 94 |
| 90 | | | | 98 |
| FIELDS ROAD ELEMENTARY | 5 | 42 | 68 | 88 |
| FLOWER VALLEY ELEMENTARY | 4 | 71 | 83 | 88 |
| FOREST GROVE ELEMENTARY | 2 | | 81 | 88 |
| | | | | 94 |
| FOREST KNOLLS ELEMENTARY | 2 | 55 | 79 | 91 |
| FOUR CORNERS ELEMENTARY | 2 | 30 | 73 | 86 |

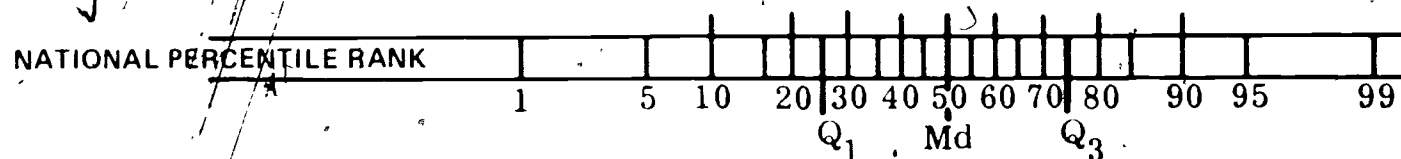
**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST-QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980 (Continued)**



| SCHOOL NAME | AREA | | | |
|----------------------------|------|----|----|----|
| FOX CHAPEL ELEMENTARY | 5 | 62 | 83 | 90 |
| GAITHERSBURG ELEMENTARY | 5 | 30 | 62 | 83 |
| GALWAY ELEMENTARY | 4 | 62 | 81 | 91 |
| GARRETT PARK ELEMENTARY | 3 | 38 | 73 | 86 |
| GEORGETOWN HILL ELEMENTARY | 3 | 68 | 88 | 95 |
| GEORGIAN FOREST ELEMENTARY | 2 | 62 | 83 | 91 |
| GERMANTOWN ELEMENTARY | 5 | 58 | 81 | 88 |
| GLEN HAVEN ELEMENTARY | 2 | 52 | 71 | 88 |
| GLENALLAN ELEMENTARY | 2 | 46 | 76 | 90 |
| GREENWOOD ELEMENTARY | 4 | 58 | 76 | 90 |
| GROSVENOR ELEMENTARY | 1 | 71 | 76 | 91 |
| HARMONY HILLS ELEMENTARY | 4 | 42 | 62 | 81 |
| HIGHLAND ELEMENTARY | 1 | 46 | 68 | 88 |
| HIGHLAND VIEW ELEMENTARY | 2 | 46 | 73 | 93 |
| HUNGERFORD PARK ELEMENTARY | 3 | 52 | 79 | 91 |

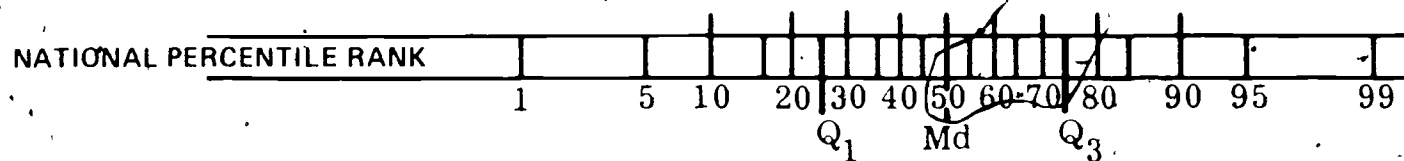
-271-

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980 (Continued)**



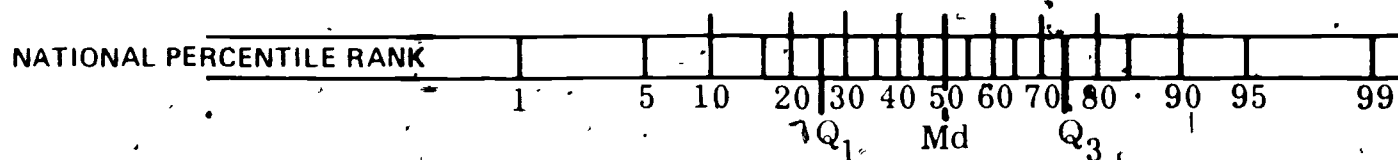
| SCHOOL NAME | AREA | | | |
|-----------------------------|------|----|----|----|
| JACKSON ROAD ELEMENTARY | 2 | 68 | 88 | 95 |
| KEMP MILL ELEMENTARY | 2 | | 95 | 98 |
| KENSINGTON ELEMENTARY | 1 | 68 | 83 | 93 |
| LAKE NORMANDY ELEMENTARY | 3 | 79 | 88 | 96 |
| LAKESWOOD ELEMENTARY | 3 | 58 | 79 | 86 |
| LARCHMONT ELEMENTARY | 1 | 10 | 22 | 58 |
| LAYTONSVILLE ELEMENTARY | 5 | 68 | 83 | 94 |
| LONE OAK ELEMENTARY | 3 | 42 | 62 | 79 |
| LUXMANOR ELEMENTARY | 3 | 71 | 91 | 97 |
| LYNNBROOK ELEMENTARY | 1 | 26 | 71 | 91 |
| MARYVALE ELEMENTARY | 3 | 7 | 38 | 58 |
| MEADOW HALL ELEMENTARY | 3 | 68 | 83 | 93 |
| MILL CREEK TOWNE ELEMENTARY | 4 | 62 | 79 | 90 |
| MONOCACY ELEMENTARY | 5 | 26 | 58 | 88 |
| MONTROSE ELEMENTARY | 3 | 52 | 71 | 83 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980 (Continued)**



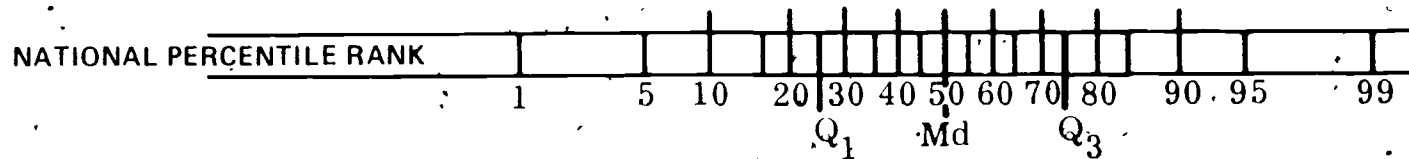
| SCHOOL NAME | AREA | | | |
|----------------------------------|------|----|----|----|
| NEW HAMPSHIRE ESTATES ELEMENTARY | 2 | 58 | 73 | 90 |
| NORTH CHEVY CHASE ELEMENTARY | 1 | 73 | 90 | 95 |
| NORTH LAKE ELEMENTARY | 4 | 71 | 79 | 88 |
| OAK VIEW ELEMENTARY | 2 | 26 | 46 | 76 |
| OAKLAND TERRACE ELEMENTARY | 1 | 62 | 81 | 93 |
| OLNEY ELEMENTARY | 4 | 65 | 81 | 93 |
| WILLIAM TYLER PAGE ELEMENTARY | 4 | 71 | 86 | 94 |
| PARKWOOD ELEMENTARY | 1 | 62 | 81 | 91 |
| PINE CREST ELEMENTARY | 2 | 52 | 68 | 88 |
| PLEASANT VIEW ELEMENTARY | 1 | 68 | 76 | 88 |
| POOLESVILLE ELEMENTARY | 5 | 49 | 76 | 90 |
| POTOMAC ELEMENTARY | 3 | 76 | 90 | 98 |
| RADNOR ELEMENTARY | 1 | 76 | 93 | 96 |
| RITCHIE PARK ELEMENTARY | 3 | 76 | 90 | 96 |
| ROCK CREEK FOREST ELEMENTARY | 1 | 55 | 76 | 90 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980 (Continued)**



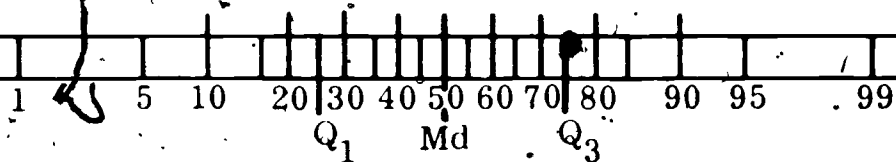
| SCHOOL NAME | AREA | | | |
|---------------------------------|------|----|----|----|
| ROCK CREEK PALISADES ELEMENTARY | 1 | 68 | 86 | 95 |
| ROCK CREEK VALLEY ELEMENTARY | 4 | 65 | 81 | 93 |
| ROCKING HORSE ROAD ELEMENTARY | 4 | 34 | 62 | 83 |
| ROLLING TERRACE ELEMENTARY | 2 | 46 | 65 | 76 |
| ROLLINGWOOD ELEMENTARY | 1 | 62 | 86 | 93 |
| ROSEMONT ELEMENTARY | 5 | 34 | 62 | 81 |
| SADDLEBROOK ELEMENTARY | 2 | 55 | 86 | 93 |
| SEVEN LOCKS ELEMENTARY | 3 | 71 | 90 | 97 |
| SHERWOOD ELEMENTARY | 4 | 46 | 71 | 88 |
| SOMERSET ELEMENTARY | 1 | 73 | 93 | 97 |
| SOUTH LAKE ELEMENTARY | 5 | 68 | 83 | 93 |
| STEDWICK ELEMENTARY | 5 | 58 | 79 | 91 |
| STONEGATE ELEMENTARY | 2 | 65 | 81 | 93 |
| STRATHMORE ELEMENTARY | 2 | 26 | 65 | 79 |
| SUMMIT HALL ELEMENTARY | 5 | 49 | 76 | 90 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 3 COMPOSITE, 1980 (Continued)**

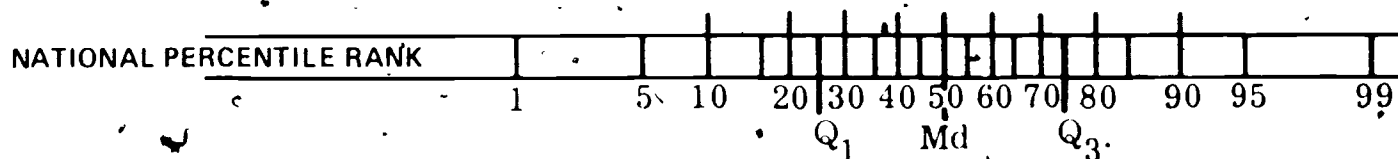


| SCHOOL NAME | AREA | | | |
|-----------------------------|------|----|----|----|
| TAKOMA PARK ELEMENTARY | 2 | 34 | 62 | 88 |
| TRAVILAH ELEMENTARY | 3 | | 65 | 83 |
| TWINBROOK ELEMENTARY | 3 | 38 | 55 | 81 |
| VIERS MILL ELEMENTARY | 4 | | 58 | 76 |
| WASHINGTON GROVE ELEMENTARY | 5 | 49 | 71 | 83 |
| WATKINS MILL ELEMENTARY | 5 | 46 | 71 | 88 |
| WAYSIDE ELEMENTARY | 3 | | 71 | 86 |
| WELLER ROAD ELEMENTARY | 4 | 30 | 58 | 81 |
| WEST ROCKVILLE ELEMENTARY | 3 | 46 | 71 | 91 |
| WESTBROOK ELEMENTARY | 1 | | 76 | 90 |
| WESTOVER ELEMENTARY | 2 | | 65 | 90 |
| WHEATON WOODS ELEMENTARY | 4 | 52 | 71 | 86 |
| WHETSTONE ELEMENTARY | 5 | | 73 | 90 |
| WOOD ACRES ELEMENTARY | 1 | | 76 | 91 |
| WOODFIELD ELEMENTARY | 5 | | 71 | 86 |

NATIONAL PERCENTILE RANK

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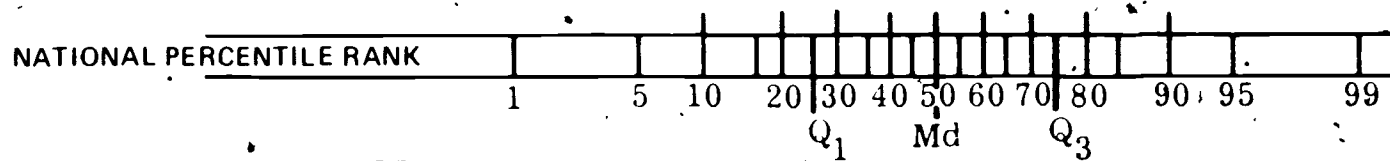
**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980**



| SCHOOL NAME | AREA | | | |
|--------------------------|------|----|----|----------|
| ARCOLA ELEMENTARY | 2 | 35 | 54 | 78 |
| ASHBURTON ELEMENTARY | 1 | | 67 | 78 86 |
| AYRLAWN ELEMENTARY | 1 | | 56 | 78 89 |
| BANNOCKBURN ELEMENTARY | 1 | | 64 | 82 92 |
| LUCY BARNSLEY ELEMENTARY | 4 | | 62 | 78 90 |
| BEL PRE ELEMENTARY | 2 | 35 | 70 | 86 |
| BELLS MILL ELEMENTARY | 3 | | 67 | 80 93 |
| BELMONT ELEMENTARY | 4 | | 56 | 72 88 |
| BETHESDA ELEMENTARY | 1 | | 76 | 89 93 |
| BEVERLY FARMS ELEMENTARY | 3 | | 74 | 84 93 |
| BRADLEY ELEMENTARY | 1 | | 78 | 90 95 |
| BROAD ACRES ELEMENTARY | 2 | 17 | 35 | 56 |
| BROOKHAVEN ELEMENTARY | 4 | | 64 | 80 92 |
| BROOKMONT ELEMENTARY | 1 | | | 88 93 97 |
| BROOKVIEW ELEMENTARY | 2 | 15 | 38 | 67 |

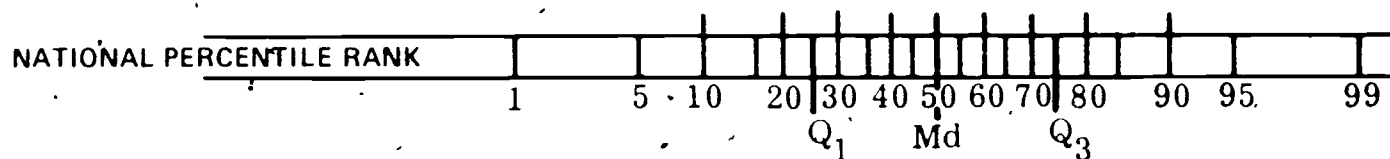
-277-

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980 (Continued)**



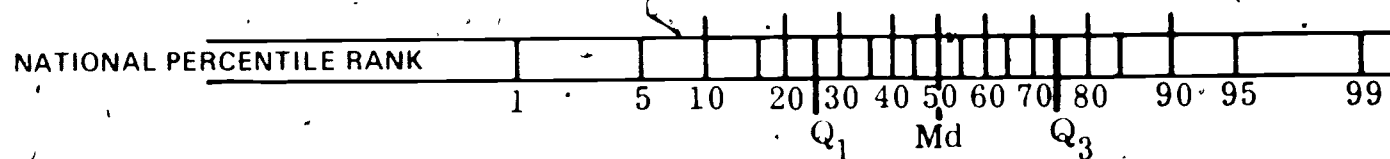
| SCHOOL NAME | AREA | | | |
|------------------------------|------|----|----|----|
| BROWN STATION ELEMENTARY | 5 | 70 | 86 | 95 |
| BURNING TREE ELEMENTARY | 1 | 82 | 92 | 97 |
| BURTONSVILLE ELEMENTARY | 4 | 41 | 54 | 70 |
| CANDLEWOOD ELEMENTARY | 4 | 51 | 76 | 95 |
| CANNON ROAD ELEMENTARY | 2 | 54 | 72 | 88 |
| CARDEROCK SPRINGS ELEMENTARY | 1 | 67 | 84 | 94 |
| CASHELL ELEMENTARY | 4 | 51 | 78 | 86 |
| CEDAR GROVE ELEMENTARY | 5 | 56 | 78 | 89 |
| CHEVY CHASE ELEMENTARY | 1 | 51 | 82 | 94 |
| CLARKSBURG ELEMENTARY | 5 | 32 | 51 | 72 |
| CLOVERLY ELEMENTARY | 4 | 49 | 72 | 88 |
| COLD SPRING ELEMENTARY | 3 | 64 | 82 | 92 |
| COLLEGE GARDENS ELEMENTARY | 3 | 54 | 74 | 88 |
| CONGRESSIONAL ELEMENTARY | 3 | 35 | 56 | 80 |
| CONNECTICUT PARK ELEMENTARY | 4 | 27 | 51 | 76 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980 (Continued)**



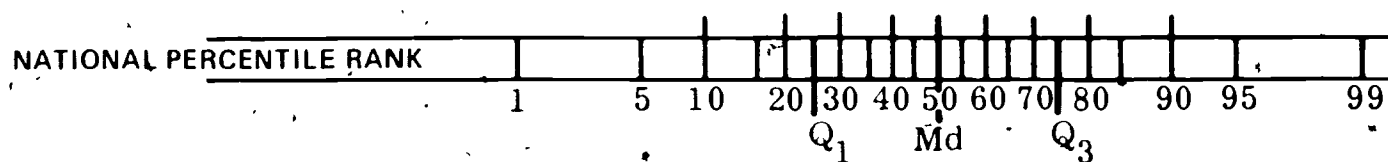
| SCHOOL NAME | AREA | | | |
|--------------------------|------|----|----|----|
| CRESTHAVEN ELEMENTARY | 2 | 56 | 82 | 90 |
| DAMASCUS ELEMENTARY | 5 | 32 | 56 | 86 |
| DARNESTOWN ELEMENTARY | 5 | 72 | 84 | 94 |
| DIAMOND ELEMENTARY | 5 | 56 | 74 | 93 |
| DUFIEF ELEMENTARY | 3 | 59 | 76 | 89 |
| ENGLISH MANOR ELEMENTARY | 4 | 41 | 64 | 86 |
| FAIRLAND ELEMENTARY | 4 | 54 | 74 | 90 |
| FALLSMEAD ELEMENTARY | 3 | 56 | 76 | 93 |
| FARMLAND ELEMENTARY | 3 | 86 | 93 | 97 |
| FIELDS ROAD ELEMENTARY | 5 | 22 | 41 | 64 |
| FLOWER VALLEY ELEMENTARY | 4 | 59 | 76 | 86 |
| FOREST GROVE ELEMENTARY | 2 | 51 | 82 | 89 |
| FOREST KNOLLS ELEMENTARY | 2 | 59 | 80 | 92 |
| FOUR CORNERS ELEMENTARY | 2 | 70 | 84 | 93 |
| FOX CHAPEL ELEMENTARY | 5 | 32 | 46 | 76 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980 (Continued)**



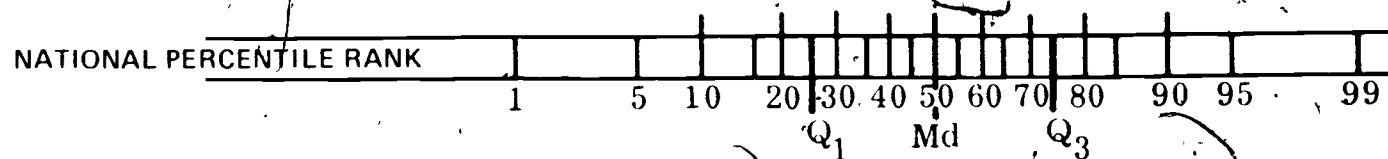
| SCHOOL NAME | AREA | | | |
|----------------------------|------|----|----|-------|
| GAITHERSBURG ELEMENTARY | 5 | 17 | 46 | 80 |
| GALWAY ELEMENTARY | 4 | | 56 | 80 89 |
| GARRETT PARK ELEMENTARY | 3 | | 54 | 76 90 |
| GEORGETOWN HILL ELEMENTARY | 3 | | 62 | 80 93 |
| GEORGIAN FOREST ELEMENTARY | 2 | | 54 | 78 92 |
| GERMANTOWN ELEMENTARY | 5 | | 49 | 72 93 |
| GLEN HAVEN ELEMENTARY | 2 | | 44 | 74 92 |
| GLENALLAN ELEMENTARY | 2 | | 44 | 67 82 |
| GREENWOOD ELEMENTARY | 4 | | 62 | 76 89 |
| GROSVENOR ELEMENTARY | 1 | | 62 | 84 92 |
| HARMONY HILLS ELEMENTARY | 4 | 38 | 54 | 82 |
| HIGHLAND ELEMENTARY | 1 | 35 | 56 | 78 |
| HIGHLAND VIEW ELEMENTARY | 2 | | 72 | 82 93 |
| HUNGERFORD PARK ELEMENTARY | 3 | 41 | 78 | 90 |
| JACKSON ROAD ELEMENTARY | 2 | | 56 | 76 89 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980 (Continued)**



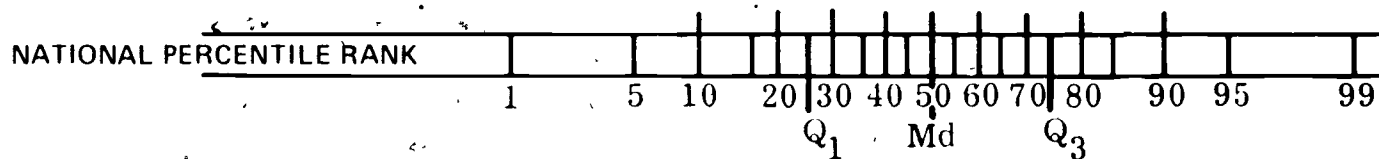
| SCHOOL NAME | AREA | | | |
|------------------------------|------|----|----|-------|
| KEMP MILL ELEMENTARY | 2 | | 67 | 82 90 |
| KENSINGTON ELEMENTARY | 1 | 32 | 54 | 86 |
| LAKE NORMANDY ELEMENTARY | 3 | | 64 | 82 92 |
| LAKEWOOD ELEMENTARY | 3 | | 54 | 80 92 |
| LARCHMONT ELEMENTARY | 1 | 32 | 56 | 82 |
| LAYTONSVILLE ELEMENTARY | 5 | | 41 | 74 88 |
| LONE OAK ELEMENTARY | 3 | 27 | 46 | 78 |
| LUXMANOR ELEMENTARY | 3 | | 76 | 92 95 |
| LYNNBROOK ELEMENTARY | 1 | | 64 | 76 89 |
| MARYVALE ELEMENTARY | 3 | 8 | 22 | 64 |
| MEADOW HALL ELEMENTARY | 3 | | 51 | 67 82 |
| MILL CREEK TOWNE ELEMENTARY | 4 | | 54 | 78 93 |
| MONOCACY ELEMENTARY | 5 | | 49 | 70 84 |
| MONTROSE ELEMENTARY | 3 | 29 | 59 | 76 |
| NORTH CHEVY CHASE ELEMENTARY | 4 | | 80 | 90 97 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980 (Continued)**



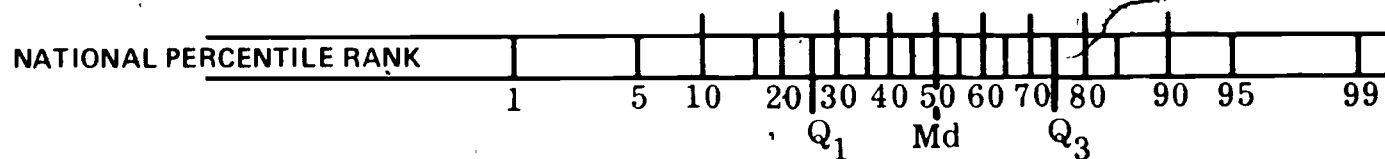
| SCHOOL NAME | AREA | | | |
|---------------------------------|------|----|----|----|
| NORTH LAKE ELEMENTARY | 4 | 51 | 70 | 86 |
| OAK VIEW ELEMENTARY | 2 | 32 | 62 | 80 |
| OAKLAND TERRACE ELEMENTARY | 1 | 56 | 78 | 88 |
| OLNEY ELEMENTARY | 4 | 51 | 76 | 90 |
| WILLIAM TYLER PAGE ELEMENTARY | 4 | 54 | 78 | 89 |
| PARKWOOD ELEMENTARY | 1 | 62 | 84 | 93 |
| PINE CREST ELEMENTARY | 2 | 49 | 70 | 88 |
| PINEY BRANCH ELEMENTARY | 2 | 22 | 54 | 76 |
| PLEASANT VIEW ELEMENTARY | 1 | 22 | 46 | 70 |
| POOLESVILLE ELEMENTARY | 5 | 41 | 62 | 78 |
| POTOMAC ELEMENTARY | 3 | 72 | 84 | 96 |
| RADNOR ELEMENTARY | 1 | 56 | 72 | 84 |
| RITCHIE PARK ELEMENTARY | 3 | 59 | 74 | 89 |
| ROCK CREEK PALISADES ELEMENTARY | 1 | 46 | 62 | 89 |
| ROCK CREEK VALLEY ELEMENTARY | 4 | 49 | 76 | 92 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980 (Continued)**



| SCHOOL NAME | AREA | | | |
|-------------------------------|------|----|-------|-------|
| ROCKING HORSE ROAD ELEMENTARY | 4 | 32 | 54 | 80 |
| ROLLINGWOOD ELEMENTARY | 1 | | 72 | 84 93 |
| ROSEMONT ELEMENTARY | 5 | 22 | 64 | 86 |
| SADDLEBROOK ELEMENTARY | 2 | | 62 80 | 92 |
| SEVEN LOCKS ELEMENTARY | 3 | | 54 74 | 86 |
| SHERWOOD ELEMENTARY | 4 | 14 | 70 | 84 |
| SOMERSET ELEMENTARY | 1 | | 72 86 | 94 |
| SOUTH LAKE ELEMENTARY | 5 | 49 | 70 | 86 |
| STEDWICK ELEMENTARY | 5 | | 59 82 | 90 |
| STONEGATE ELEMENTARY | 2 | | 59 80 | 92 |
| STRATHMORE ELEMENTARY | 2 | 41 | 49 | 74 |
| SUMMIT HALL ELEMENTARY | 5 | 46 | 70 | 88 |
| TRAVILAH ELEMENTARY | 3 | 46 | 72 | 89 |
| TWINBROOK ELEMENTARY | 3 | 30 | 51 | 72 |
| VIERS MILL ELEMENTARY | 4 | 30 | 54 | 74 |

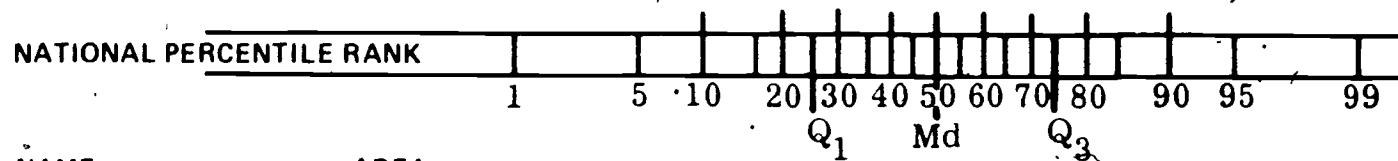
**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 5 COMPOSITE, 1980 (Continued)**



| SCHOOL NAME | AREA | | | |
|-----------------------------|------|----|----|----|
| WASHINGTON GROVE ELEMENTARY | 5 | 38 | 56 | 76 |
| WATKINS MILL ELEMENTARY | 5 | 38 | 59 | 82 |
| WAYSIDE ELEMENTARY | 3 | | 56 | 80 |
| WELLER ROAD ELEMENTARY | 4 | 30 | 54 | 76 |
| WEST ROCKVILLE ELEMENTARY | 3 | 27 | 62 | 86 |
| WESTBROOK ELEMENTARY | 1 | | 64 | 80 |
| WESTOVER ELEMENTARY | 2 | | 51 | 76 |
| WHEATON WOODS ELEMENTARY | 4 | 46 | 62 | 76 |
| WHETSTONE ELEMENTARY | 5 | | 59 | 76 |
| WOOD ACRES ELEMENTARY | 1 | | 74 | 86 |
| WOODFIELD ELEMENTARY | 5 | | 62 | 80 |
| WOODSIDE ELEMENTARY | 2 | 8 | 27 | 56 |
| WYNGATE ELEMENTARY | 1 | | 70 | 86 |
| | | | | |
| | | | | |

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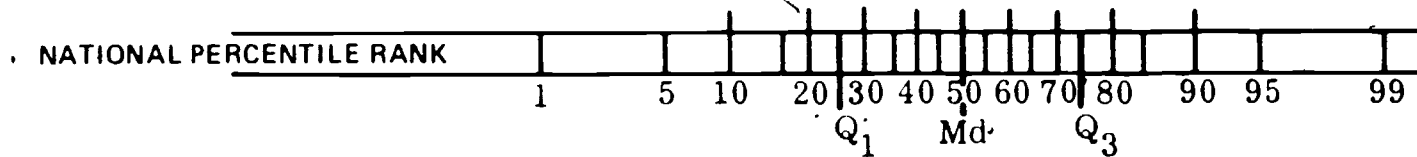
**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 7 COMPOSITE, 1980**



| SCHOOL NAME | AREA | | | |
|-----------------------------------|------|----|----|----|
| ARGYLE JUNIOR HIGH | 2 | 30 | 60 | 81 |
| JOHN T. BAKER JUNIOR HIGH | 5 | 36 | 62 | 80 |
| BENJAMIN BANNEKER JUNIOR HIGH | 4 | 44 | 64 | 83 |
| COL. JOSEPH BELT JUNIOR HIGH | 4 | 22 | 46 | 64 |
| EDWIN W. BROOME MIDDLE SCHOOL | 3 | 30 | 44 | 62 |
| CABIN JOHN JUNIOR HIGH | 3 | | 56 | 76 |
| EASTERN JUNIOR HIGH | 2 | 34 | 54 | 80 |
| WILLIAM H. FARQUHAR MIDDLE SCHOOL | 4 | 32 | 56 | 76 |
| ROBERT FROST JUNIOR HIGH | 3 | | 54 | 76 |
| GAITHERSBURG JUNIOR HIGH | 5 | 24 | 52 | 72 |
| HERBERT HOOVER JUNIOR HIGH | 3 | | 58 | 80 |
| FRANCIS SCOTT KEY JUNIOR HIGH | 2 | 38 | 62 | 83 |
| COL. E. BROOKE LEE JUNIOR HIGH | 2 | 44 | 64 | 81 |
| LELAND JUNIOR HIGH | 1 | 48 | 72 | 87 |
| MONTGOMERY VILLAGE JUNIOR HIGH | 5 | 42 | 68 | 86 |

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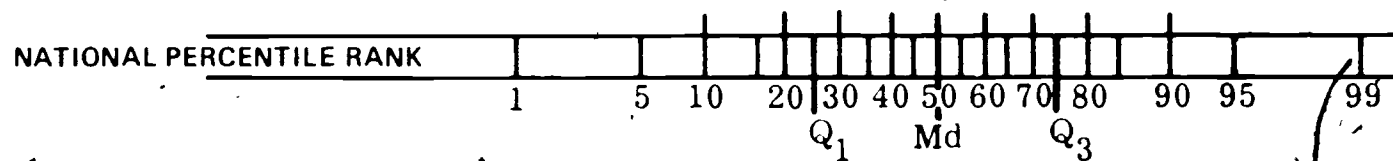
**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 7 COMPOSITE, 1980 (Continued)**



| SCHOOL NAME | AREA | | | |
|----------------------------|------|----|----|----|
| NEWPORT MIDDLE SCHOOL | 1 | 36 | 54 | 76 |
| NORTH BETHESDA JUNIOR HIGH | 1 | 56 | 74 | 89 |
| PARKLAND JUNIOR HIGH | 4 | 40 | 58 | 76 |
| POOLESVILLE HIGH | 5 | 32 | 50 | 68 |
| THOMAS W. PYLE JUNIOR HIGH | 1 | 70 | 86 | 94 |
| RANDOLPH JUNIOR HIGH | 4 | 28 | 50 | 68 |
| REDLAND MIDDLE SCHOOL | 4 | 40 | 62 | 83 |
| RIDGEVIEW JUNIOR HIGH | 5 | 28 | 56 | 81 |
| SLIGO JUNIOR HIGH | 2 | 30 | 54 | 76 |
| TAKOMA PARK JUNIOR HIGH | 2 | 22 | 40 | 64 |
| TILDEN JUNIOR HIGH | 3 | 62 | 76 | 87 |
| JULIUS WEST MIDDLE SCHOOL | 3 | 44 | 66 | 81 |
| WESTERN JUNIOR HIGH | 1 | 64 | 80 | 91 |
| WHITE OAK JUNIOR HIGH | 2 | 48 | 70 | 84 |
| EARLE B. WOOD JUNIOR HIGH | 4 | 58 | 78 | 89 |

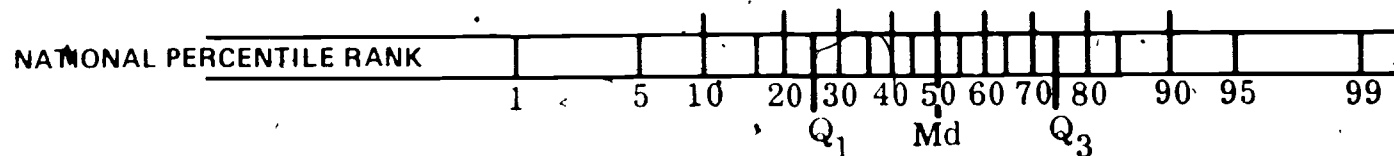
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**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 9 COMPOSITE, 1980**



| SCHOOL NAME | AREA | | | |
|--------------------------------|------|----|----|----|
| ARGYLE JUNIOR HIGH | 2 | 38 | 58 | 78 |
| BENJAMIN BANNEKER JUNIOR HIGH | 4 | 41 | 62 | 79 |
| COL. JOSEPH BELT JUNIOR HIGH | 4 | 26 | 47 | 68 |
| BETHESDA-CHEVY CHASE HIGH | 1 | 48 | 72 | 90 |
| CABIN JOHN JUNIOR HIGH | 3 | 54 | 76 | 89 |
| DAMASCUS HIGH | 5 | 31 | 52 | 72 |
| EASTERN JUNIOR HIGH | 2 | 33 | 54 | 74 |
| ALBERT EINSTEIN HIGH | 1 | 31 | 47 | 66 |
| GAITHERSBURG JUNIOR HIGH | 5 | 27 | 54 | 76 |
| HERBERT HOOVER JUNIOR HIGH | 3 | 56 | 78 | 90 |
| WALTER JOHNSON HIGH | 1 | 39 | 62 | 90 |
| FRANCIS SCOTT KEY JUNIOR HIGH | 2 | 33 | 58 | 78 |
| COL. E. BROOKE LEE JUNIOR HIGH | 2 | 50 | 70 | 90 |
| COL. ZADOK MAGRUDER HIGH | 4 | 43 | 62 | 85 |
| RICHARD MONTGOMERY HIGH | 3 | 33 | 56 | 76 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 9 COMPOSITE, 1980 (Continued)**

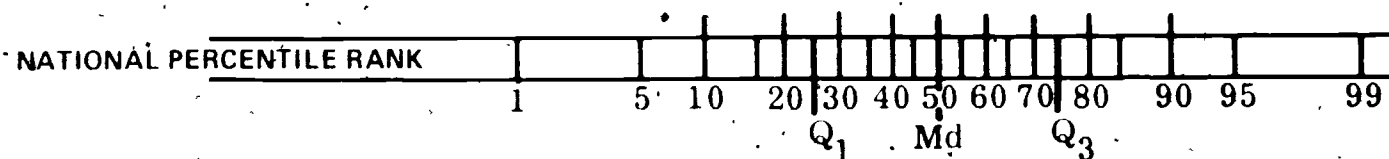


| SCHOOL NAME | AREA | | | |
|--------------------------------|------|----|----|----|
| MONTGOMERY VILLAGE JUNIOR HIGH | 5 | 43 | 66 | 83 |
| NORTH BETHESDA JUNIOR HIGH | 1 | 47 | 70 | 87 |
| PARKLAND JUNIOR HIGH | 4 | 38 | 56 | 74 |
| POOLESVILLE HIGH | 5 | 19 | 50 | 68 |
| MAS W. PYLE JUNIOR HIGH | 1 | 60 | 76 | 91 |
| RANDOLPH JUNIOR HIGH | 4 | 21 | 38 | 58 |
| RIDGEVIEW JUNIOR HIGH | 5 | 28 | 52 | 74 |
| ROCKVILLE HIGH | 3 | 33 | 47 | 68 |
| SHERWOOD HIGH | 4 | 36 | 56 | 76 |
| SLIGO JUNIOR HIGH | 2 | 26 | 48 | 70 |
| TAKOMA PARK JUNIOR HIGH | 2 | 12 | 30 | 52 |
| TILDEN JUNIOR HIGH | 3 | 58 | 74 | 91 |
| WESTERN JUNIOR HIGH | 1 | 60 | 81 | 91 |
| WHITE OAK JUNIOR HIGH | 2 | 41 | 60 | 78 |
| EARLE B. WOOD JUNIOR HIGH | 4 | 52 | 76 | 89 |

NATIONAL PERCENTILE RANK

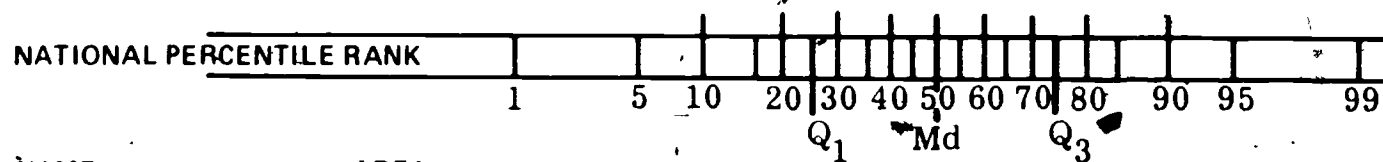
325

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 11 COMPOSITE, 1980**



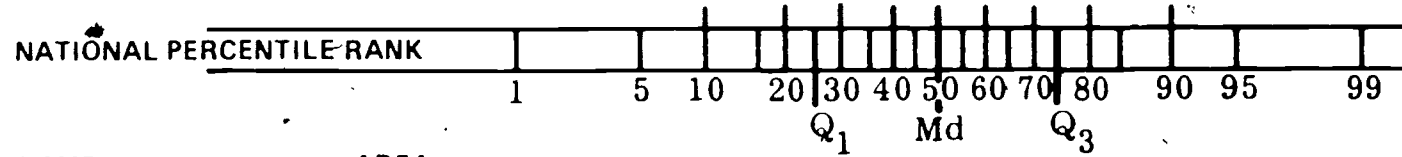
| SCHOOL NAME | AREA | | | |
|---------------------------|------|----|----|----|
| BETHESDA-CHEVY CHASE HIGH | 1 | 52 | 77 | 93 |
| MONTGOMERY BLAIR HIGH | 2 | 18 | 43 | 71 |
| WINSTON CHURCHILL HIGH | 3 | 55 | 77 | 91 |
| DAMASCUS HIGH | 5 | 31 | 55 | 82 |
| ALBERT EINSTEIN HIGH | 1 | 31 | 47 | 77 |
| GAITHERSBURG HIGH | 5 | 36 | 63 | 84 |
| WALTER JOHNSON HIGH | 1 | 47 | 74 | 91 |
| JOHN F. KENNEDY HIGH | 2 | 31 | 59 | 82 |
| COL. ZADOK MAGRUDER HIGH | 4 | 39 | 59 | 84 |
| RICHARD MONTGOMERY HIGH | 3 | 29 | 52 | 82 |
| NORTHWOOD HIGH | 2 | 29 | 59 | 82 |
| PAINT BRANCH HIGH | 4 | 31 | 55 | 77 |
| ROBERT E. PEARY HIGH | 4 | 39 | 63 | 87 |
| POOLESVILLE HIGH | 5 | 21 | 52 | 74 |
| ROCKVILLE HIGH | 3 | 39 | 59 | 87 |

**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT EACH SCHOOL'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
GRADE 11 COMPOSITE, 1980 (Continued)**



| SCHOOL NAME | AREA | | | |
|--------------------------|------|----|----|----|
| SENECA VALLEY HIGH | 5 | 31 | 59 | 82 |
| SHERWOOD HIGH | 4 | 29 | 52 | 71 |
| SPRINGBROOK HIGH | 2 | 43 | 67 | 87 |
| WHEATON HIGH | 4 | 21 | 43 | 71 |
| WALT WHITMAN HIGH | 1 | 63 | 82 | 94 |
| CHARLES W. WOODWARD HIGH | 3 | 59 | 82 | 94 |
| THOMAS S. WOOTTON HIGH | 3 | 55 | 74 | 91 |
| | | | | |
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**NATIONAL PERCENTILE RANK FOR THE STUDENT SCORING AT THE COUNTY'S
FIRST QUARTILE (Q1), MEDIAN, AND THIRD QUARTILE (Q3) —
COMPOSITE**



| SCHOOL NAME | AREA | | | |
|-----------------------|------|----|----|----|
| GRADE 3 COUNTY (ITBS) | | 58 | 79 | 93 |
| GRADE 5 COUNTY (ITBS) | | 49 | 74 | 89 |
| GRADE 7 COUNTY (ITBS) | | 42 | 66 | 84 |
| GRADE 9 COUNTY (ITBS) | | 39 | 62 | 81 |
| GRADE 11 COUNTY (TAP) | | 36 | 63 | 87 |
| | | | | |
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2.C. MARYLAND FUNCTIONAL READING TEST

The Maryland Functional Reading Test (MFRT) is part of the Maryland State minimum competency testing program. The MFRT is designed to measure how well students have attained the minimal literacy skills, determined by the Maryland State Department of Education (MSDE), necessary for a high school diploma. Starting with the graduating class of 1982, the MFRT will be a graduation requirement. To pass this test a student must answer at least 80 percent of the questions on the test correctly.

Data

The percentage of students achieving the 80 percent competency score for each school is reported for each category of the MFRT and for the total test. These data are reported for Grade 7 in Table 2.C.1. Schools are listed alphabetically.

Results from the Grade 9 administration of the MFRT are not reported because the test that was mandated by MSDE was later declared invalid by MSDE.

Analysis

No formal analysis has been performed. The data are descriptive.

TABLE 2.C.1

TIONAL READING TEST RESULTS
 OBER 1979 ADMINISTRATION IN GRADE 7

| School Name | Area | Number of Students Tested | Percentage of Students Scoring at Least 80 Percent | | | | | Total Test |
|---------------------------|------|---------------------------------|--|------------------------|------------------------|-------------------------|------|---------------|
| | | | Locating References | Understanding Forms | Gaining Information | Following Directions | | |
| Argyle Junior | 2 | 208 | 90.4 | 83.7 | 81.3 | 93.8 | 90.9 | |
| Baker Junior | 5 | 257 | 87.2 | 82.5 | 81.3 | 91.1 | 86.4 | |
| Banneker Junior | 4 | 236 | 95.3 | 90.7 | 89.0 | 96.6 | 94.1 | |
| Belt Junior | 4 | 221 | 83.3 | 76.5 | 77.4 | 86.0 | 79.6 | |
| Broome Middle | 3 | 238 | 85.3 | 82.4 | 79.4 | 90.3 | 85.3 | |
| Cabin John Junior | 3 | 284 | 95.8 | 92.3 | 87.0 | 97.5 | 94.7 | |
| Eastern Junior | 2 | 143 | 89.5 | 87.4 | 83.2 | 94.4 | 89.5 | |
| Farquhar Middle | 4 | 318 | 85.5 | 85.8 | 80.5 | 93.7 | 85.8 | |
| Frost Junior | 3 | 413 | 93.7 | 88.6 | 88.4 | 95.6 | 92.7 | |
| Gaithersburg Junior | 5 | 325 | 84.0 | 80.3 | 76.3 | 90.5 | 82.2 | |
| Hoover Junior | 3 | 265 | 95.8 | 87.9 | 89.8 | 93.6 | 91.7 | |
| Key Junior | 2 | 242 | 91.3 | 89.7 | 86.4 | 95.5 | 90.9 | |
| Lee Junior | 2 | 174 | 91.4 | 87.9 | 83.9 | 93.7 | 90.8 | |
| Leland Junior | 1 | 302 | 91.1 | 88.4 | 84.8 | 93.7 | 89.4 | |
| Montgomery Village Junior | 5 | 310 | 89.0 | 87.7 | 85.8 | 93.9 | 89.0 | |
| Newport Middle | 1 | 214 | 91.1 | 93.0 | 86.0 | 94.4 | 92.5 | |
| North Bethesda Junior | 1 | 188 | 96.3 | 93.6 | 92.6 | 97.9 | 94.7 | |
| Parkland Junior | 4 | 227 | 90.3 | 88.1 | 85.0 | 93.8 | 89.0 | |
| Poolesville High | 5 | 125 | 90.4 | 89.6 | 80.8 | 95.2 | 91.2 | |
| Pyle Junior | 1 | 305 | 96.7 | 94.8 | 94.8 | 98.4 | 97.0 | |
| Randolph Junior | 4 | 126 | 86.5 | 82.5 | 81.7 | 91.3 | 88.1 | |
| Redland Middle | 4 | 283 | 90.8 | 84.8 | 81.3 | 92.2 | 87.6 | |
| Ridgeview Junior | 5 | 415 | 88.2 | 82.9 | 80.5 | 91.3 | 86.0 | |
| Sligo Junior High | 2 | 262 | 87.0 | 80.5 | 81.7 | 91.6 | 85.9 | |
| Takoma Park Junior | 2 | 162 | 86.4 | 82.7 | 73.5 | 90.1 | 84.0 | |
| Tilden Junior | 3 | 177 | 97.7 | 92.7 | 93.8 | 98.9 | 97.2 | |
| Julius West Middle | 3 | 214 | 91.1 | 85.0 | 84.1 | 94.9 | 91.6 | |
| Western Junior | 1 | 182 | 98.4 | 91.2 | 92.9 | 98.9 | 96.7 | |
| White Oak Junior | 2 | 292 | 90.1 | 87.0 | 86.0 | 92.1 | 88.7 | |
| Wood Junior | 4 | 318 | 97.8 | 97.5 | 96.5 | 99.7 | 98.7 | |

2.D. COLLEGE BOARD RESULTS

Introduction

The College Entrance Examination Board (CEEB) tests are examinations generally taken by college bound senior high school students. The Scholastic Aptitude Tests (SAT), the most widely taken tests in this group, were administered to approximately 68 percent of the 1980 MCPS graduating class. The CEEB Achievement Tests were taken by less than 25 percent of this class. The percentages taking these tests varied across schools.

It is often claimed that the results from College Board tests provide a measure of how well county students are prepared for college. Scores on these tests are data used by colleges to help make admissions decisions. For these reasons performance on these tests may be a more accurate indicator of the skills of college bound students than the Tests of Academic Progress (TAP) administered in Grade 11. Because of the importance of the CEEB results to individual students, the students are likely to be better motivated than when taking the TAP.

Data

School mean scores on the SAT Verbal and Math Tests are presented for 1979 and 1980 in Table 2.D.1. The number tested is also presented. No summary results have been provided for Poolsville High School because of the small number of students tested. The College Board does not report SAT results for groups of less than 50.

School mean scores for several College Board achievement tests are reported in Table 2.D.2 for 1980. The number tested is also reported and this is considerably smaller than the number for the SAT. Results are not reported for any groups of less than 25 students. Thus it is possible that schools which do not have data for a test did have some students take the test.

It is especially important to note the number of students tested when reviewing these data. The small number tested in many schools means the results may not be representative of performance in the total school. Results for small groups could be well above the average that would have resulted had many more of the students in the school taken the tests. This is because these tests are generally taken by high achieving, college bound students. The percentages of students taking the SAT and at least one achievement test in each school are listed in Table 2.D.3.

The results reported for the SAT and achievement tests are for graduating seniors the last time they took the test. That is, if they took the test in Grade 11 and not in Grade 12, their eleventh grade score would be included in these results. If they took the test in the twelfth grade, only the twelfth grade score would be included.

Analysis

No formal statistical analyses were performed.

TABLE 2.D.1

SCHOOL RESULTS ON THE
SCHOLASTIC APTITUDE TESTS (SAT)*

| School Name | Verbal | | | | Math | | | |
|------------------|--------|------|--------|------|--------|------|--------|------|
| | 1979 | | 1980 | | 1979 | | 1980 | |
| | Number | Mean | Number | Mean | Number | Mean | Number | Mean |
| B-CC | 360 | 474 | 388 | 481 | 360 | 505 | 389 | 515 |
| Montgomery Blair | 297 | 429 | 261 | 411 | 297 | 468 | 261 | 454 |
| Churchill | 497 | 460 | 582 | 472 | 498 | 510 | 583 | 526 |
| Damascus | 135 | 448 | 115 | 436 | 135 | 489 | 115 | 491 |
| Einstein | 179 | 433 | 185 | 423 | 179 | 505 | 185 | 473 |
| Gaithersburg | 203 | 462 | 243 | 456 | 203 | 506 | 243 | 496 |
| Walter Johnson | 321 | 467 | 312 | 476 | 321 | 503 | 312 | 514 |
| Kennedy | 219 | 442 | 255 | 444 | 219 | 488 | 255 | 501 |
| Magruder | 267 | 456 | 307 | 460 | 267 | 506 | 307 | 519 |
| R. Montgomery | 183 | 454 | 182 | 437 | 183 | 486 | 182 | 487 |
| Northwood | 254 | 445 | 257 | 434 | 254 | 490 | 257 | 480 |
| Paint Branch | 279 | 426 | 242 | 437 | 279 | 475 | 242 | 480 |
| Peary | 348 | 439 | 296 | 446 | 348 | 491 | 296 | 496 |
| Rockville | 177 | 438 | 145 | 454 | 177 | 485 | 145 | 511 |
| Seneca Valley | 229 | 459 | 286 | 454 | 229 | 500 | 286 | 492 |
| Sherwood | 195 | 417 | 216 | 417 | 195 | 465 | 216 | 455 |
| Springbrook | 418 | 462 | 425 | 451 | 418 | 501 | 425 | 502 |
| Wheaton | 211 | 418 | 176 | 415 | 211 | 480 | 176 | 475 |
| Walt Whitman | 562 | 502 | 630 | 502 | 558 | 536 | 628 | 543 |
| Woodward | 284 | 464 | 277 | 460 | 284 | 512 | 277 | 512 |
| Wootton | 356 | 475 | 364 | 464 | 356 | 520 | 364 | 517 |
| County | | 456 | | 456 | | 500 | | 503 |
| National | | 427 | | 424 | | 467 | | 466 |

*Results are not reported for Poolesville because fewer than 50 students took the test. However, the Poolesville scores are included in the county average.

TABLE 2.D.2

SCHOOL MEAN SCORES ON THE COLLEGE BOARD ACHIEVEMENT TESTS, 1980

| School Name | American History | | Biology | | Chemistry | | English | | French | | Literature | | Math I | | Math II | | Spanish | | Average* | |
|------------------|------------------|------|---------|------|-----------|------|---------|------|--------|------|------------|------|--------|------|---------|------|---------|------|----------|------|
| | Number | Mean | Number | Mean | Number | Mean | Number | Mean | Number | Mean | Number | Mean | Number | Mean | Number | Mean | Number | Mean | Number | Mean |
| B-CC | 27 | 580 | | | 37 | 616 | 179 | 574 | 55 | 630 | | | 107 | 545 | 49 | 664 | 34 | 505 | 183 | 572 |
| Montgomery Blair | | | | | | | 48 | 564 | | | | | | | | | | | 53 | 568 |
| Churchill | 25 | 496 | | | 70 | 608 | 214 | 555 | 48 | 539 | 27 | 536 | 149 | 581 | 63 | 699 | 55 | 533 | 225 | 565 |
| Gaithersburg | | | | | | | 52 | 574 | | | | | 28 | 567 | 27 | 676 | | | 55 | 575 |
| Walter Johnson | | | 30 | 582 | 26 | 658 | 102 | 565 | | | | | 64 | 564 | 30 | 689 | | | 106 | 582 |
| Kennedy | | | | | | | 67 | 563 | | | | | 48 | 598 | | | | | 71 | 576 |
| Magruder | | | | | | | 66 | 564 | | | | | 52 | 590 | 29 | 691 | | | 72 | 577 |
| R. Montgomery | | | | | | | 33 | 582 | | | | | | | | | | | 33 | 596 |
| Northwood | | | | | | | 38 | 627 | | | | | | | | | | | 39 | 598 |
| Paint Branch | | | | | | | 36 | 550 | | | | | 25 | 545 | | | | | 37 | 554 |
| Pearcy | | | | | | | 49 | 549 | | | | | 28 | 596 | 32 | 668 | | | 52 | 579 |
| Rockville | | | | | | | 33 | 555 | | | | | | | | | | | 33 | 563 |
| Seneca Valley | | | | | | | 76 | 545 | | | | | 48 | 535 | 33 | 675 | | | 80 | 555 |
| Sherwood | | | | | | | 40 | 492 | | | | | 33 | 559 | | | | | 41 | 514 |
| Springbrook | | | | | | | 84 | 560 | | | | | 52 | 583 | 40 | 717 | | | 91 | 585 |
| Walt Whitman | 38 | 515 | 119 | 583 | 61 | 633 | 392 | 545 | 87 | 582 | 70 | 567 | 240 | 544 | 127 | 683 | 47 | 522 | 407 | 562 |
| Woodward | | | | | | | 101 | 569 | | | | | 57 | 566 | 37 | 710 | | | 103 | 584 |
| Wootton | | | 28 | 599 | | | 125 | 540 | | | | | 78 | 565 | 44 | 692 | | | 127 | 564 |
| County | | 525 | | 583 | | 615 | | 556 | | 563 | | 566 | | 561 | | 685 | | 517 | | 569 |
| National | | 501 | | 551 | | 573 | | 518 | | 550 | | 514 | | 536 | | 653 | | 524 | | 532 |

*This is the average for all tests administered, not just those shown in this table. Any test which was taken by fewer than 25 students is not reported here, but was included in the average. Results were not reported by the College Board for groups of less than 25 students.

TABLE 2.D.3

PERCENTAGE OF STUDENTS TAKING
COLLEGE BOARD EXAMS, BY SCHOOL

| School Name | Class of 1979 | | Class of 1980 | | |
|------------------|------------------------|--|------------------------|--|---|
| | Sept. 30 Enrollment | Percentage of Enrollment Taking SAT | Sept. 30 Enrollment | Percentage of Enrollment Taking SAT | Percentage of Enrollment Taking At Least One Achieve- ment Test |
| B-CC | 424 | 85 | 437 | 89 | 42 |
| Montgomery Blair | 524 | 57 | 489 | 53 | 11 |
| Churchill | 583 | 85 | 651 | 89 | 35 |
| Damascus | 280 | 48 | 237 | 49 | * |
| Einstein | 361 | 50 | 329 | 56 | * |
| Gaithersburg | 413 | 49 | 402 | 60 | 14 |
| Walter Johnson | 390 | 82 | 391 | 80 | 27 |
| Kennedy | 343 | 64 | 370 | 69 | 19 |
| Magruder | 439 | 61 | 448 | 69 | 16 |
| R. Montgomery | 378 | 48 | 359 | 51 | 9 |
| Northwood | 479 | 53 | 443 | 58 | 9 |
| Paint Branch | 394 | 71 | 359 | 67 | 10 |
| Peary | 526 | 66 | 489 | 61 | 11 |
| Rockville | 325 | 54 | 307 | 47 | 11 |
| Seneca Valley | 440 | 52 | 489 | 58 | 16 |
| Sherwood | 310 | 63 | 316 | 68 | 13 |
| Springbrook | 579 | 72 | 565 | 75 | 16 |
| Wheaton | 506 | 42 | 418 | 42 | * |
| Walt Whitman | 626 | 90 | 686 | 92 | 59 |
| Woodward | 361 | 79 | 338 | 82 | 30 |
| Wootton | 437 | 81 | 430 | 85 | 30 |

*No results reported by the College Board because fewer than 25 students were tested.

2.E. COGNITIVE ABILITIES TEST MEAN SCORES

The Cognitive Abilities Test (CAT) was administered with the ITBS. These tests should be regarded as tests of general achievement.

Data

The mean standard age score (SAS) is reported for each school on each subtest. These mean scores are computed using the SAS to be consistent with past years. Also reported is the percentile rank (PR) that corresponds to the reported mean score. These PR's are based on student norms.

The results are presented by school in alphabetical order by grade. The pages where each grade starts follow:

Grades 3 and/or 5 - Page 300

Grades 7 and/or 9 - Page 314

Analysis

No formal analysis has been performed. The data are descriptive.

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST

| | Grade 3 | | Grade 5 | |
|---------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| ARCOLA ELEMENTARY* | | | | |
| Verbal | 101 | 52 | 103 | 57 |
| Quantitative | 112 | 77 | 110 | 73 |
| Nonverbal | 108 | 69 | 109 | 71 |
| ASHBURTON ELEMENTARY | | | | |
| Verbal | 118 | 87 | 113 | 79 |
| Quantitative | 122 | 92 | 114 | 81 |
| Nonverbal | 115 | 83 | 115 | 83 |
| AYRLAWN ELEMENTARY | | | | |
| Verbal | 116 | 84 | 117 | 86 |
| Quantitative | 123 | 92 | 114 | 81 |
| Nonverbal | 119 | 88 | 115 | 83 |
| BANNOCKBURN ELEMENTARY | | | | |
| Verbal | 118 | 87 | 117 | 86 |
| Quantitative | 124 | 93 | 115 | 83 |
| Nonverbal | 120 | 89 | 116 | 84 |
| LUCY BARNESLEY ELEMENTARY | | | | |
| Verbal | 114 | 81 | 114 | 81 |
| Quantitative | 117 | 86 | 116 | 84 |
| Nonverbal | 114 | 81 | 115 | 83 |
| BEL PRE ELEMENTARY | | | | |
| Verbal | 105 | 62 | 106 | 65 |
| Quantitative | 106 | 65 | 108 | 69 |
| Nonverbal | 109 | 71 | 109 | 71 |
| BELLS MILL ELEMENTARY | | | | |
| Verbal | 118 | 87 | 116 | 84 |
| Quantitative | 118 | 87 | 115 | 83 |
| Nonverbal | 117 | 86 | 115 | 83 |
| BELMONT ELEMENTARY | | | | |
| Verbal | 116 | 84 | 113 | 79 |
| Quantitative | 120 | 89 | 111 | 75 |
| Nonverbal | 114 | 81 | 114 | 81 |
| BETHESDA ELEMENTARY | | | | |
| Verbal | 118 | 87 | 120 | 89 |
| Quantitative | 121 | 91 | 120 | 89 |
| Nonverbal | 115 | 83 | 118 | 87 |

**Mean for national norm group.

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|---------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| BEVERLY FARMS ELEMENTARY | | | | |
| Verbal | 118 | 87 | 117 | 86 |
| Quantitative | 121 | 91 | 117 | 86 |
| Nonverbal | 112 | 77 | 117 | 86 |
| BRADLEY ELEMENTARY | | | | |
| Verbal | 118 | 87 | 118 | 87 |
| Quantitative | 122 | 92 | 116 | 84 |
| Nonverbal | 115 | 83 | 116 | 84 |
| BROAD ACRES ELEMENTARY | | | | |
| Verbal | 96 | 40 | 98 | 45 |
| Quantitative | 98 | 45 | 100 | 40 |
| Nonverbal | 102 | 55 | 106 | 65 |
| BROOKHAVEN ELEMENTARY | | | | |
| Verbal | 109 | 71 | 113 | 79 |
| Quantitative | 113 | 79 | 113 | 79 |
| Nonverbal | 108 | 69 | 110 | 73 |
| BROOKMONT ELEMENTARY | | | | |
| Verbal | 123 | 92 | 121 | 91 |
| Quantitative | 125 | 94 | 118 | 87 |
| Nonverbal | 120 | 89 | 117 | 86 |
| BROOKVIEW ELEMENTARY | | | | |
| Verbal | 104 | 60 | 99 | 48 |
| Quantitative | 107 | 67 | 100 | 50 |
| Nonverbal | 104 | 60 | 103 | 57 |
| BROWN STATION ELEMENTARY | | | | |
| Verbal | 110 | 73 | 112 | 77 |
| Quantitative | 110 | 73 | 112 | 77 |
| Nonverbal | 108 | 69 | 111 | 75 |
| BURNING TREE ELEMENTARY | | | | |
| Verbal | 119 | 88 | 121 | 91 |
| Quantitative | 121 | 91 | 121 | 91 |
| Nonverbal | 116 | 84 | 119 | 88 |
| BURTONSVILLE ELEMENTARY | | | | |
| Verbal | 109 | 71 | 104 | 60 |
| Quantitative | 113 | 79 | 106 | 65 |
| Nonverbal | 108 | 69 | 113 | 79 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| CANDLEWOOD ELEMENTARY | | | | |
| Verbal | 113 | 79 | 113 | 79 |
| Quantitative | 117 | 86 | 113 | 79 |
| Nonverbal | 111 | 75 | 112 | 77 |
| CANNON ROAD ELEMENTARY | | | | |
| Verbal | 115 | 83 | 113 | 79 |
| Quantitative | 115 | 83 | 110 | 73 |
| Nonverbal | 113 | 79 | 110 | 73 |
| CARDEROCK SPRINGS ELEMENTARY | | | | |
| Verbal | 121 | 91 | 116 | 84 |
| Quantitative | 125 | 94 | 121 | 91 |
| Nonverbal | 119 | 88 | 117 | 86 |
| CASHELL ELEMENTARY | | | | |
| Verbal | 111 | 75 | 110 | 73 |
| Quantitative | 110 | 73 | 108 | 69 |
| Nonverbal | 105 | 62 | 108 | 69 |
| CEDAR GROVE ELEMENTARY | | | | |
| Verbal | 117 | 86 | 114 | 81 |
| Quantitative | 122 | 92 | 115 | 83 |
| Nonverbal | 120 | 89 | 116 | 84 |
| CHEVY CHASE ELEMENTARY | | | | |
| Verbal | 120 | 89 | 116 | 84 |
| Quantitative | 114 | 81 | 113 | 79 |
| Nonverbal | 110 | 73 | 113 | 79 |
| CLARKSBURG ELEMENTARY | | | | |
| Verbal | 105 | 62 | 105 | 62 |
| Quantitative | 107 | 67 | 103 | 57 |
| Nonverbal | 105 | 62 | 109 | 71 |
| CLOVERLY ELEMENTARY | | | | |
| Verbal | 110 | 73 | 112 | 77 |
| Quantitative | 115 | 83 | 112 | 77 |
| Nonverbal | 113 | 79 | 114 | 81 |
| COLD SPRING ELEMENTARY | | | | |
| Verbal | 117 | 86 | 117 | 86 |
| Quantitative | 120 | 89 | 117 | 86 |
| Nonverbal | 114 | 81 | 115 | 83 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|--------------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| COLLEGE GARDENS ELEMENTARY | | | | |
| Verbal | 112 | 77 | 114 | 81 |
| Quantitative | 117 | 86 | 113 | 79 |
| Nonverbal | 115 | 83 | 113 | 79 |
| CONGRESSIONAL ELEMENTARY | | | | |
| Verbal | 105 | 62 | 104 | 60 |
| Quantitative | 112 | 77 | 110 | 73 |
| Nonverbal | 110 | 73 | 112 | 77 |
| CONNECTICUT PARK ELEMENTARY | | | | |
| Verbal | 113 | 79 | 105 | 62 |
| Quantitative | 115 | 83 | 107 | 67 |
| Nonverbal | 112 | 77 | 109 | 71 |
| CRESTHAVEN ELEMENTARY | | | | |
| Verbal | 115 | 83 | 115 | 83 |
| Quantitative | 118 | 87 | 113 | 79 |
| Nonverbal | 113 | 79 | 114 | 81 |
| DAMASCUS ELEMENTARY | | | | |
| Verbal | 112 | 77 | 106 | 65 |
| Quantitative | 115 | 83 | 107 | 67 |
| Nonverbal | 113 | 79 | 110 | 73 |
| DARNESTOWN ELEMENTARY | | | | |
| Verbal | 116 | 84 | 118 | 87 |
| Quantitative | 121 | 91 | 120 | 89 |
| Nonverbal | 115 | 83 | 114 | 81 |
| DIAMOND ELEMENTARY | | | | |
| Verbal | 114 | 81 | 116 | 84 |
| Quantitative | 117 | 86 | 115 | 83 |
| Nonverbal | 114 | 81 | 116 | 84 |
| DUFIEF ELEMENTARY | | | | |
| Verbal | 114 | 81 | 115 | 83 |
| Quantitative | 119 | 88 | 115 | 83 |
| Nonverbal | 113 | 79 | 115 | 83 |
| EAST SILVER SPRING ELEMENTARY | | | | |
| Verbal | 103 | 57 | | |
| Quantitative | 106 | 65 | | |
| Nonverbal | 108 | 69 | | |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|--------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| ENGLISH MANOR ELEMENTARY | | | | |
| Verbal | 111 | 75 | 110 | 73 |
| Quantitative | 121 | 91 | 110 | 73 |
| Nonverbal | 114 | 81 | 111 | 75 |
| FAIRLAND ELEMENTARY | | | | |
| Verbal | 114 | 81 | 113 | 79 |
| Quantitative | 116 | 84 | 111 | 75 |
| Nonverbal | 109 | 71 | 113 | 79 |
| FALLSMEAD ELEMENTARY | | | | |
| Verbal | 117 | 86 | 115 | 83 |
| Quantitative | 120 | 89 | 114 | 81 |
| Nonverbal | 116 | 84 | 115 | 83 |
| FARMLAND ELEMENTARY | | | | |
| Verbal | 116 | 84 | 119 | 88 |
| Quantitative | 121 | 91 | 121 | 91 |
| Nonverbal | 119 | 88 | 119 | 88 |
| FIELDS ROAD ELEMENTARY | | | | |
| Verbal | 108 | 69 | 102 | 55 |
| Quantitative | 111 | 75 | 99 | 48 |
| Nonverbal | 110 | 73 | 103 | 57 |
| FLOWER VALLEY ELEMENTARY | | | | |
| Verbal | 113 | 79 | 113 | 79 |
| Quantitative | 117 | 86 | 115 | 83 |
| Nonverbal | 114 | 81 | 112 | 77 |
| FOREST GROVE ELEMENTARY | | | | |
| Verbal | 109 | 71 | 113 | 79 |
| Quantitative | 116 | 84 | 114 | 81 |
| Nonverbal | 111 | 75 | 117 | 86 |
| FOREST KNOLLS ELEMENTARY | | | | |
| Verbal | 115 | 83 | 113 | 79 |
| Quantitative | 118 | 87 | 113 | 79 |
| Nonverbal | 112 | 77 | 113 | 79 |
| FOUR CORNERS ELEMENTARY | | | | |
| Verbal | 108 | 69 | 115 | 83 |
| Quantitative | 112 | 77 | 113 | 79 |
| Nonverbal | 110 | 73 | 116 | 84 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|----------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| FOX CHAPEL, ELEMENTARY | | | | |
| Verbal | 110 | 73 | 106 | 65 |
| Quantitative | 112 | 77 | 102 | 55 |
| Nonverbal | 110 | 73 | 105 | 62 |
| GAITHERSBURG ELEMENTARY | | | | |
| Verbal | 107 | 67 | 104 | 60 |
| Quantitative | 109 | 71 | 104 | 60 |
| Nonverbal | 105 | 62 | 106 | 65 |
| GALWAY ELEMENTARY | | | | |
| Verbal | 116 | 84 | 113 | 79 |
| Quantitative | 114 | 81 | 112 | 77 |
| Nonverbal | 106 | 65 | 113 | 79 |
| GARRETT PARK ELEMENTARY | | | | |
| Verbal | 111 | 75 | 115 | 83 |
| Quantitative | 115 | 83 | 114 | 81 |
| Nonverbal | 111 | 75 | 114 | 81 |
| GEORGETOWN HILL ELEMENTARY | | | | |
| Verbal | 115 | 83 | 116 | 84 |
| Quantitative | 118 | 87 | 121 | 91 |
| Nonverbal | 116 | 84 | 117 | 86 |
| GEORGIAN FOREST ELEMENTARY | | | | |
| Verbal | 114 | 81 | 111 | 75 |
| Quantitative | 119 | 88 | 112 | 77 |
| Nonverbal | 116 | 84 | 115 | 83 |
| GERMANTOWN ELEMENTARY | | | | |
| Verbal | 107 | 67 | 110 | 73 |
| Quantitative | 112 | 77 | 106 | 65 |
| Nonverbal | 104 | 60 | 110 | 73 |
| GLEN HAVEN ELEMENTARY | | | | |
| Verbal | 108 | 69 | 112 | 77 |
| Quantitative | 108 | 69 | 109 | 71 |
| Nonverbal | 107 | 67 | 110 | 73 |
| GLENALLAN ELEMENTARY | | | | |
| Verbal | 107 | 67 | 110 | 73 |
| Quantitative | 112 | 77 | 109 | 71 |
| Nonverbal | 110 | 73 | 111 | 75 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|-----------------------------------|------------------|----------------|------------------|----------------|
| | Standard Age | Percentile | Standard Age | Percentile |
| | Score (100)** | Rank (50)** | Score (100)** | Rank (50)** |
| GREENWOOD ELEMENTARY | | | | |
| Verbal | 110 | 73 | 114 | 81 |
| Quantitative | 113 | 79 | 113 | 79 |
| Nonverbal | 111 | 75 | 114 | 81 |
| GROSVENOR ELEMENTARY | | | | |
| Verbal | 115 | 83 | 116 | 84 |
| Quantitative | 119 | 88 | 117 | 86 |
| Nonverbal | 118 | 87 | 117 | 86 |
| HARMONY HILLS ELEMENTARY | | | | |
| Verbal | 106 | 65 | 108 | 69 |
| Quantitative | 113 | 79 | 107 | 67 |
| Nonverbal | 106 | 65 | 109 | 71 |
| HIGHLAND ELEMENTARY | | | | |
| Verbal | 106 | 65 | 105 | 62 |
| Quantitative | 108 | 69 | 107 | 67 |
| Nonverbal | 105 | 62 | 107 | 67 |
| HIGHLAND VIEW ELEMENTARY | | | | |
| Verbal | 108 | 69 | 114 | 81 |
| Quantitative | 110 | 73 | 113 | 79 |
| Nonverbal | 108 | 69 | 115 | 83 |
| HUNGERFORD PARK ELEMENTARY | | | | |
| Verbal | 109 | 71 | 112 | 77 |
| Quantitative | 111 | 75 | 110 | 73 |
| Nonverbal | 108 | 69 | 111 | 75 |
| JACKSON ROAD ELEMENTARY | | | | |
| Verbal | 113 | 79 | 112 | 77 |
| Quantitative | 117 | 86 | 110 | 73 |
| Nonverbal | 112 | 77 | 113 | 79 |
| KEMP MILL ELEMENTARY | | | | |
| Verbal | 110 | 73 | 114 | 81 |
| Quantitative | 113 | 79 | 115 | 83 |
| Nonverbal | 115 | 83 | 115 | 83 |
| KENSINGTON ELEMENTARY | | | | |
| Verbal | 112 | 77 | 109 | 71 |
| Quantitative | 116 | 84 | 107 | 67 |
| Nonverbal | 118 | 87 | 114 | 81 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|---------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| LAKE NORMANDY ELEMENTARY | | | | |
| Verbal | 121 | 91 | 120 | 89 |
| Quantitative | 121 | 91 | 120 | 89 |
| Nonverbal | 114 | 81 | 117 | 86 |
| LAKEWOOD ELEMENTARY | | | | |
| Verbal | 110 | 73 | 112 | 77 |
| Quantitative | 113 | 79 | 112 | 77 |
| Nonverbal | 112 | 77 | 114 | 81 |
| LARCHMONT ELEMENTARY | | | | |
| Verbal | 94 | 35 | 106 | 65 |
| Quantitative | 93 | 33 | 105 | 62 |
| Nonverbal | 94 | 35 | 107 | 67 |
| LAYTONSVILLE ELEMENTARY | | | | |
| Verbal | 115 | 83 | 110 | 73 |
| Quantitative | 118 | 87 | 112 | 77 |
| Nonverbal | 117 | 86 | 111 | 75 |
| LONE OAK ELEMENTARY | | | | |
| Verbal | 107 | 67 | 105 | 62 |
| Quantitative | 108 | 69 | 102 | 55 |
| Nonverbal | 108 | 69 | 110 | 73 |
| LUXMANOR ELEMENTARY | | | | |
| Verbal | 119 | 88 | 122 | 92 |
| Quantitative | 127 | 95 | 122 | 92 |
| Nonverbal | 119 | 88 | 118 | 87 |
| LYNNBROOK ELEMENTARY | | | | |
| Verbal | 109 | 71 | 114 | 81 |
| Quantitative | 105 | 62 | 117 | 86 |
| Nonverbal | 98 | 45 | 113 | 79 |
| MARYVALE ELEMENTARY | | | | |
| Verbal | 95 | 38 | 97 | 43 |
| Quantitative | 99 | 48 | 98 | 45 |
| Nonverbal | 102 | 55 | 101 | 52 |
| MEADOW HALL ELEMENTARY | | | | |
| Verbal | 112 | 77 | 108 | 69 |
| Quantitative | 114 | 81 | 106 | 65 |
| Nonverbal | 114 | 81 | 110 | 73 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|---|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| MILL CREEK TOWNE. ELEMENTARY | | | | |
| Verbal | 110 | 73 | 113 | 79 |
| Quantitative | 114 | 81 | 116 | 84 |
| Nonverbal | 113 | 79 | 117 | 86 |
| MONOCACY ELEMENTARY | | | | |
| Verbal | 102 | 55 | 109 | 71 |
| Quantitative | 103 | 57 | 109 | 71 |
| Nonverbal | 104 | 60 | 111 | 75 |
| MONTROSE ELEMENTARY | | | | |
| Verbal | 103 | 57 | 105 | 62 |
| Quantitative | 106 | 65 | 100 | 50 |
| Nonverbal | 107 | 67 | 108 | 69 |
| NEW HAMPSHIRE ESTATES ELEMENTARY | | | | |
| Verbal | 108 | 69 | | |
| Quantitative | 111 | 75 | | |
| Nonverbal | 108 | 69 | | |
| NORTH CHEVY CHASE ELEMENTARY | | | | |
| Verbal | 115 | 83 | 119 | 88 |
| Quantitative | 124 | 93 | 117 | 86 |
| Nonverbal | 117 | 86 | 115 | 83 |
| NORTH LAKE ELEMENTARY | | | | |
| Verbal | 117 | 86 | 115 | 83 |
| Quantitative | 118 | 87 | 112 | 77 |
| Nonverbal | 116 | 84 | 115 | 83 |
| OAK VIEW ELEMENTARY | | | | |
| Verbal | 105 | 62 | 105 | 62 |
| Quantitative | 105 | 62 | 105 | 62 |
| Nonverbal | 106 | 65 | 110 | 73 |
| OAKLAND TERRACE ELEMENTARY | | | | |
| Verbal | 114 | 81 | 114 | 81 |
| Quantitative | 116 | 84 | 114 | 81 |
| Nonverbal | 114 | 81 | 113 | 79 |
| OLNEY ELEMENTARY | | | | |
| Verbal | 113 | 79 | 110 | 73 |
| Quantitative | 116 | 84 | 110 | 73 |
| Nonverbal | 112 | 77 | 111 | 75 |

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SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|--------------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| WILLIAM TYLER PAGE ELEMENTARY | | | | |
| Verbal | 118 | 87 | 113 | 79 |
| Quantitative | 117 | 86 | 112 | 77 |
| Nonverbal | 117 | 86 | 111 | 75 |
| PARKWOOD ELEMENTARY | | | | |
| Verbal | 111 | 75 | 114 | 81 |
| Quantitative | 112 | 77 | 118 | 87 |
| Nonverbal | 110 | 73 | 119 | 88 |
| PINE CREST ELEMENTARY | | | | |
| Verbal | 110 | 73 | 112 | 77 |
| Quantitative | 109 | 71 | 109 | 71 |
| Nonverbal | 107 | 67 | 112 | 77 |
| PINEY BRANCH ELEMENTARY | | | | |
| Verbal | | | 105 | 62 |
| Quantitative | | | 102 | 55 |
| Nonverbal | | | 106 | 65 |
| PLEASANT VIEW ELEMENTARY | | | | |
| Verbal | 116 | 84 | 103 | 57 |
| Quantitative | 117 | 86 | 101 | 52 |
| Nonverbal | 110 | 73 | 104 | 60 |
| POOLESVILLE ELEMENTARY | | | | |
| Verbal | 109 | 71 | 107 | 67 |
| Quantitative | 112 | 77 | 106 | 65 |
| Nonverbal | 108 | 69 | 109 | 71 |
| POTOMAC ELEMENTARY | | | | |
| Verbal | 118 | 87 | 116 | 84 |
| Quantitative | 122 | 92 | 117 | 86 |
| Nonverbal | 113 | 79 | 114 | 81 |
| RADNOR ELEMENTARY | | | | |
| Verbal | 122 | 92 | 113 | 79 |
| Quantitative | 121 | 91 | 110 | 73 |
| Nonverbal | 119 | 88 | 115 | 83 |
| RITCHIE PARK ELEMENTARY | | | | |
| Verbal | 121 | 91 | 116 | 84 |
| Quantitative | 120 | 89 | 113 | 79 |
| Nonverbal | 114 | 81 | 116 | 84 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|---------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| ROCK CREEK FOREST ELEMENTARY | | | | |
| Verbal | 111 | 75 | | |
| Quantitative | 114 | 81 | | |
| Nonverbal | 115 | 83 | | |
| ROCK CREEK PALISADES ELEMENTARY | | | | |
| Verbal | 115 | 83 | 110 | 73 |
| Quantitative | 119 | 88 | 108 | 69 |
| Nonverbal | 114 | 81 | 114 | 81 |
| ROCK CREEK VALLEY ELEMENTARY | | | | |
| Verbal | 114 | 81 | 114 | 81 |
| Quantitative | 119 | 88 | 115 | 83 |
| Nonverbal | 115 | 83 | 115 | 83 |
| ROCKING HORSE ROAD ELEMENTARY | | | | |
| Verbal | 105 | 62 | 106 | 65 |
| Quantitative | 107 | 67 | 104 | 60 |
| Nonverbal | 105 | 62 | 108 | 69 |
| ROLLING TERRACE ELEMENTARY | | | | |
| Verbal | 101 | 52 | | |
| Quantitative | 104 | 60 | | |
| Nonverbal | 107 | 67 | | |
| ROLLINGWOOD ELEMENTARY | | | | |
| Verbal | 118 | 87 | 117 | 86 |
| Quantitative | 118 | 87 | 118 | 87 |
| Nonverbal | 114 | 81 | 117 | 86 |
| ROSEMONT ELEMENTARY | | | | |
| Verbal | 104 | 60 | 104 | 60 |
| Quantitative | 106 | 65 | 105 | 62 |
| Nonverbal | 106 | 65 | 103 | 57 |
| SADDLEBROOK ELEMENTARY | | | | |
| Verbal | 116 | 84 | 113 | 79 |
| Quantitative | 119 | 88 | 116 | 84 |
| Nonverbal | 114 | 81 | 113 | 79 |
| SEVEN LOCKS ELEMENTARY | | | | |
| Verbal | 121 | 91 | 113 | 79 |
| Quantitative | 126 | 95 | 114 | 81 |
| Nonverbal | 116 | 84 | 111 | 75 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|-------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| SHERWOOD ELEMENTARY | | | | |
| Verbal | 110 | 73 | 110 | 73 |
| Quantitative | 108 | 69 | 112 | 77 |
| Nonverbal | 107 | 67 | 110 | 73 |
| SOMERSET ELEMENTARY | | | | |
| Verbal | 128 | 96 | 116 | 84 |
| Quantitative | 129 | 97 | 121 | 91 |
| Nonverbal | 120 | 89 | 116 | 84 |
| SOUTH LAKE ELEMENTARY | | | | |
| Verbal | 113 | 79 | 110 | 73 |
| Quantitative | 116 | 84 | 111 | 75 |
| Nonverbal | 109 | 71 | 111 | 75 |
| STEDWICK ELEMENTARY | | | | |
| Verbal | 114 | 81 | 113 | 79 |
| Quantitative | 116 | 84 | 115 | 83 |
| Nonverbal | 115 | 83 | 116 | 84 |
| STONEGATE ELEMENTARY | | | | |
| Verbal | 115 | 83 | 113 | 79 |
| Quantitative | 121 | 91 | 112 | 77 |
| Nonverbal | 111 | 75 | 110 | 73 |
| STRATHMORE ELEMENTARY | | | | |
| Verbal | 107 | 67 | 105 | 62 |
| Quantitative | 109 | 71 | 110 | 73 |
| Nonverbal | 104 | 60 | 108 | 69 |
| SUMMIT HALL ELEMENTARY | | | | |
| Verbal | 106 | 65 | 109 | 71 |
| Quantitative | 111 | 75 | 109 | 71 |
| Nonverbal | 107 | 67 | 114 | 81 |
| TAKOMA PARK ELEMENTARY | | | | |
| Verbal | 108 | 69 | | |
| Quantitative | 108 | 69 | | |
| Nonverbal | 108 | 69 | | |
| TRAVILAH ELEMENTARY | | | | |
| Verbal | 115 | 83 | 111 | 75 |
| Quantitative | 118 | 87 | 110 | 73 |
| Nonverbal | 111 | 75 | 112 | 77 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|------------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| TWINBROOK ELEMENTARY | | | | |
| Verbal | 105 | 62 | 108 | 69 |
| Quantitative | 106 | 65 | 107 | 67 |
| Nonverbal | 106 | 65 | 111 | 75 |
| VIERS MILL ELEMENTARY | | | | |
| Verbal | 110 | 73 | 103 | 57 |
| Quantitative | 114 | 81 | 103 | 57 |
| Nonverbal | 112 | 77 | 109 | 71 |
| WASHINGTON GROVE ELEMENTARY | | | | |
| Verbal | 108 | 69 | 105 | 62 |
| Quantitative | 111 | 75 | 107 | 67 |
| Nonverbal | 110 | 73 | 110 | 73 |
| WATKINS MILL ELEMENTARY | | | | |
| Verbal | 110 | 73 | 106 | 65 |
| Quantitative | 113 | 79 | 106 | 65 |
| Nonverbal | 111 | 75 | 107 | 67 |
| WAYSIDE ELEMENTARY | | | | |
| Verbal | 116 | 84 | 114 | 81 |
| Quantitative | 118 | 87 | 115 | 83 |
| Nonverbal | 117 | 86 | 110 | 73 |
| WELLER ROAD ELEMENTARY | | | | |
| Verbal | 103 | 57 | 105 | 62 |
| Quantitative | 104 | 60 | 104 | 60 |
| Nonverbal | 103 | 57 | 108 | 69 |
| WEST ROCKVILLE ELEMENTARY | | | | |
| Verbal | 109 | 71 | 107 | 67 |
| Quantitative | 109 | 71 | 109 | 71 |
| Nonverbal | 113 | 79 | 107 | 67 |
| WESTBROOK ELEMENTARY | | | | |
| Verbal | 121 | 91 | 116 | 84 |
| Quantitative | 117 | 86 | 117 | 86 |
| Nonverbal | 117 | 86 | 117 | 86 |
| WESTOVER ELEMENTARY | | | | |
| Verbal | 116 | 84 | 113 | 79 |
| Quantitative | 122 | 92 | 111 | 75 |
| Nonverbal | 116 | 84 | 109 | 71 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 3 | | Grade 5 | |
|--------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| WHEATON WOODS ELEMENTARY | | | | |
| Verbal | 107 | 67 | 109 | 71 |
| Quantitative | 109 | 71 | 108 | 69 |
| Nonverbal | 108 | 69 | 110 | 73 |
| WHETSTONE ELEMENTARY | | | | |
| Verbal | 118 | 87 | 113 | 79 |
| Quantitative | 121 | 91 | 112 | 77 |
| Nonverbal | 112 | 77 | 115 | 83 |
| WOOD ACRES ELEMENTARY | | | | |
| Verbal | 119 | 88 | 118 | 87 |
| Quantitative | 122 | 92 | 118 | 87 |
| Nonverbal | 117 | 86 | 118 | 87 |
| WOODFIELD ELEMENTARY | | | | |
| Verbal | 115 | 83 | 113 | 79 |
| Quantitative | 116 | 84 | 112 | 77 |
| Nonverbal | 113 | 79 | 112 | 77 |
| WOODLIN ELEMENTARY | | | | |
| Verbal | 104 | 60 | | |
| Quantitative | 103 | 57 | | |
| Nonverbal | 103 | 57 | | |
| WOODSIDE ELEMENTARY | | | | |
| Verbal | | | 96 | 40 |
| Quantitative | | | 96 | 40 |
| Nonverbal | | | 99 | 48 |
| WYNGATE ELEMENTARY | | | | |
| Verbal | 123 | 92 | 118 | 87 |
| Quantitative | 124 | 93 | 118 | 87 |
| Nonverbal | 119 | 88 | 117 | 86 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST

| | Grade 7 | | Grade 9 | |
|--------------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| ARGYLE JUNIOR HIGH SCHOOL | | | | |
| Verbal | 106 | 65 | 107 | 67 |
| Quantitative | 108 | 69 | 110 | 73 |
| Nonverbal | 109 | 71 | 112 | 77 |
| JOHN T. BAKER JUNIOR HIGH SCHOOL | | | | |
| Verbal | 105 | 62 | | |
| Quantitative | 109 | 71 | | |
| Nonverbal | 110 | 73 | | |
| BENJAMIN BANNEKER JUNIOR HIGH SCHOOL | | | | |
| Verbal | 110 | 73 | 108 | 69 |
| Quantitative | 107 | 67 | 111 | 75 |
| Nonverbal | 112 | 77 | 112 | 77 |
| COL. JOSEPH BELT JUNIOR HIGH SCHOOL | | | | |
| Verbal | 101 | 52 | 102 | 55 |
| Quantitative | 106 | 65 | 105 | 62 |
| Nonverbal | 107 | 67 | 109 | 71 |
| BETHESDA-CHEVY CHASE HIGH SCHOOL | | | | |
| Verbal | | | 113 | 79 |
| Quantitative | | | 115 | 83 |
| Nonverbal | | | 114 | 81 |
| EDWIN W. BROOME MIDDLE SCHOOL | | | | |
| Verbal | 101 | 52 | | |
| Quantitative | 103 | 57 | | |
| Nonverbal | 109 | 71 | | |
| CABIN JOHN JUNIOR HIGH SCHOOL | | | | |
| Verbal | 112 | 77 | 113 | 79 |
| Quantitative | 115 | 83 | 120 | 89 |
| Nonverbal | 113 | 79 | 119 | 88 |
| DAMASCUS HIGH SCHOOL | | | | |
| Verbal | | | 104 | 60 |
| Quantitative | | | 107 | 67 |
| Nonverbal | | | 109 | 71 |
| EASTERN JUNIOR HIGH SCHOOL | | | | |
| Verbal | 107 | 67 | 106 | 65 |
| Quantitative | 106 | 65 | 108 | 69 |
| Nonverbal | 108 | 69 | 109 | 71 |

**Mean for national norm group.

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 8 | | Grade 9 | |
|---------------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| ALBERT EINSTEIN HIGH SCHOOL | | | | |
| Verbal | | | 104 | 60 |
| Quantitative | | | 107 | 67 |
| Nonverbal | | | 108 | 69 |
| WILLIAM H. FARQUHAR MIDDLE SCHOOL | | | | |
| Verbal | 105 | 62 | | |
| Quantitative | 109 | 71 | | |
| Nonverbal | 108 | 69 | | |
| ROBERT FROST JUNIOR HIGH SCHOOL | | | | |
| Verbal | 111 | 75 | | |
| Quantitative | 114 | 81 | | |
| Nonverbal | 113 | 79 | | |
| GAITHERSBURG JUNIOR HIGH SCHOOL | | | | |
| Verbal | 102 | 55 | 102 | 55 |
| Quantitative | 104 | 60 | 108 | 69 |
| Nonverbal | 108 | 69 | 110 | 73 |
| HERBERT HOOVER JUNIOR HIGH SCHOOL | | | | |
| Verbal | 114 | 81 | 114 | 81 |
| Quantitative | 120 | 89 | 121 | 91 |
| Nonverbal | 116 | 84 | 120 | 89 |
| WALTER JOHNSON HIGH SCHOOL | | | | |
| Verbal | | | 113 | 79 |
| Quantitative | | | 112 | 77 |
| Nonverbal | | | 117 | 86 |
| FRANCIS SCOTT KEY JUNIOR HIGH SCHOOL | | | | |
| Verbal | 106 | 65 | 107 | 67 |
| Quantitative | 109 | 71 | 110 | 73 |
| Nonverbal | 110 | 73 | 112 | 77 |
| COL. E. BROOKE LEE JUNIOR HIGH SCHOOL | | | | |
| Verbal | 108 | 69 | 111 | 75 |
| Quantitative | 112 | 77 | 115 | 83 |
| Nonverbal | 108 | 69 | 115 | 83 |
| LELAND JUNIOR HIGH SCHOOL | | | | |
| Verbal | 110 | 73 | | |
| Quantitative | 113 | 79 | | |
| Nonverbal | 113 | 79 | | |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 7 | | Grade 9 | |
|---------------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| COL. ZADOK MAGRUDER HIGH SCHOOL | | | | |
| Verbal | | | 110 | 73 |
| Quantitative | | | 112 | 77 |
| Nonverbal | | | 112 | 77 |
| RICHARD MONTGOMERY HIGH SCHOOL | | | | |
| Verbal | | | 105 | 62 |
| Quantitative | | | 107 | 67 |
| Nonverbal | | | 111 | 75 |
| MONTGOMERY VILLAGE JUNIOR HIGH SCHOOL | | | | |
| Verbal | 110 | 73 | 110 | 73 |
| Quantitative | 110 | 73 | 112 | 77 |
| Nonverbal | 112 | 77 | 114 | 81 |
| NEWPORT MIDDLE SCHOOL | | | | |
| Verbal | 106 | 65 | | |
| Quantitative | 104 | 60 | | |
| Nonverbal | 110 | 73 | | |
| NORTH BETHESDA JUNIOR HIGH SCHOOL | | | | |
| Verbal | 112 | 77 | 112 | 77 |
| Quantitative | 114 | 81 | 117 | 86 |
| Nonverbal | 115 | 83 | 117 | 86 |
| PARKLAND JUNIOR HIGH SCHOOL | | | | |
| Verbal | 105 | 62 | 105 | 62 |
| Quantitative | 109 | 71 | 109 | 71 |
| Nonverbal | 111 | 75 | 111 | 75 |
| POOLESVILLE JUNIOR-SENIOR HIGH SCHOOL | | | | |
| Verbal | 102 | 55 | 101 | 52 |
| Quantitative | 104 | 60 | 103 | 57 |
| Nonverbal | 105 | 62 | 107 | 67 |
| THOMAS W. PYLE JUNIOR HIGH SCHOOL | | | | |
| Verbal | 117 | 86 | 115 | 83 |
| Quantitative | 124 | 93 | 121 | 91 |
| Nonverbal | 118 | 87 | 119 | 88 |
| RANDOLPH JUNIOR HIGH SCHOOL | | | | |
| Verbal | 101 | 52 | 100 | 50 |
| Quantitative | 102 | 55 | 102 | 55 |
| Nonverbal | 105 | 62 | 107 | 67 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 7 | | Grade 9 | |
|--------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| REDLAND MIDDLE SCHOOL | | | | |
| Verbal | 108 | 69 | | |
| Quantitative | 108 | 69 | | |
| Nonverbal | 110 | 73 | | |
| RIDGEVIEW JUNIOR HIGH SCHOOL | | | | |
| Verbal | 106 | 65 | 104 | 60 |
| Quantitative | 106 | 65 | 107 | 67 |
| Nonverbal | 109 | 71 | 111 | 75 |
| ROCKVILLE HIGH SCHOOL | | | | |
| Verbal | | | 103 | 57 |
| Quantitative | | | 104 | 60 |
| Nonverbal | | | 110 | 73 |
| SHERWOOD HIGH SCHOOL | | | | |
| Verbal | | | 106 | 65 |
| Quantitative | | | 108 | 69 |
| Nonverbal | | | 110 | 73 |
| SLIGO JUNIOR HIGH SCHOOL | | | | |
| Verbal | 104 | 60 | 103 | 57 |
| Quantitative | 105 | 62 | 106 | 65 |
| Nonverbal | 108 | 69 | 110 | 73 |
| TAKOMA PARK JUNIOR HIGH SCHOOL | | | | |
| Verbal | 100 | 50 | 96 | 40 |
| Quantitative | 101 | 52 | 99 | 48 |
| Nonverbal | 105 | 62 | 105 | 62 |
| TILDEN JUNIOR HIGH SCHOOL | | | | |
| Verbal | 112 | 77 | 112 | 77 |
| Quantitative | 117 | 86 | 118 | 87 |
| Nonverbal | 115 | 83 | 117 | 86 |
| JULIUS WEST MIDDLE SCHOOL | | | | |
| Verbal | 109 | 71 | | |
| Quantitative | 112 | 77 | | |
| Nonverbal | 114 | 81 | | |
| WESTERN JUNIOR HIGH SCHOOL | | | | |
| Verbal | 116 | 84 | 116 | 84 |
| Quantitative | 116 | 84 | 119 | 88 |
| Nonverbal | 116 | 84 | 118 | 87 |

SCHOOL MEAN SCORES: COGNITIVE ABILITIES TEST (Continued)

| | Grade 7 | | Grade 9 | |
|----------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| | Standard Age Score (100)** | Percentile Rank (50)** | Standard Age Score (100)** | Percentile Rank (50)** |
| WHITE OAK JUNIOR HIGH SCHOOL | | | | |
| Verbal | 110 | 73 | 107 | 67 |
| Quantitative | 112 | 77 | 111 | 75 |
| Nonverbal | 112 | 77 | 112 | 77 |
| EARLE B. WOOD JUNIOR HIGH SCHOOL | | | | |
| Verbal | 113 | 79 | 114 | 81 |
| Quantitative | 117 | 86 | 119 | 88 |
| Nonverbal | 115 | 83 | 118 | 87 |
| THOMAS S. WOOTTON HIGH SCHOOL | | | | |
| Verbal | | | 113 | 79 |
| Quantitative | | | 118 | 87 |
| Nonverbal | | | 117 | 86 |

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RAW DATA USED IN THE REPORT

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TABLE A1

IOWA TESTS OF BASIC SKILLS RESULTS
BY RACIAL/ETHNIC GROUPS FOR 1977 TO 1980, GRADE 3

(Scores reported are Percentile Ranks (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | WHITE | | BLACK | | HISPANIC | | ASIAN | |
|---------------------|------|-------|-----|-------|-----|----------|-----|-------|-----|
| | | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 80 | 68 | 52 | 51 | 63 | 57 | 83 | 70 |
| | 1979 | 80 | 68 | 50 | 50 | 69 | 60 | 82 | 69 |
| | 1978 | 78 | 66 | 48 | 49 | 63 | 57 | 83 | 70 |
| | 1977 | 77 | 66 | 44 | 47 | 67 | 59 | 80 | 68 |
| VOCABULARY | 1980 | 75 | 64 | 51 | 51 | 53 | 52 | 71 | 62 |
| | 1979 | 75 | 64 | 48 | 49 | 61 | 56 | 70 | 61 |
| | 1978 | 73 | 63 | 46 | 48 | 57 | 54 | 73 | 63 |
| | 1977 | 73 | 63 | 44 | 47 | 60 | 55 | 68 | 60 |
| READING | 1980 | 78 | 63 | 46 | 48 | 51 | 51 | 69 | 60 |
| | 1979 | 73 | 63 | 43 | 46 | 60 | 55 | 70 | 61 |
| | 1978 | 71 | 62 | 43 | 46 | 55 | 53 | 72 | 62 |
| | 1977 | 70 | 61 | 40 | 45 | 61 | 56 | 69 | 60 |
| SPELLING | 1980 | 79 | 67 | 67 | 59 | 69 | 60 | 86 | 73 |
| | 1979 | 78 | 67 | 63 | 57 | 74 | 64 | 86 | 73 |
| | 1978 | 76 | 65 | 61 | 56 | 68 | 60 | 85 | 72 |
| | 1977 | 76 | 65 | 57 | 53 | 70 | 60 | 85 | 72 |
| CAPITALIZATION | 1980 | 81 | 68 | 63 | 57 | 73 | 63 | 87 | 74 |
| | 1979 | 80 | 68 | 54 | 55 | 75 | 65 | 86 | 73 |
| | 1978 | 80 | 68 | 60 | 55 | 73 | 63 | 87 | 74 |
| | 1977 | 79 | 67 | 54 | 52 | 76 | 65 | 86 | 72 |
| PUNCTUATION | 1980 | 83 | 71 | 62 | 56 | 73 | 63 | 90 | 77 |
| | 1979 | 84 | 71 | 62 | 56 | 74 | 67 | 89 | 76 |
| | 1978 | 83 | 70 | 61 | 56 | 77 | 64 | 91 | 78 |
| | 1977 | 81 | 68 | 54 | 52 | 77 | 65 | 87 | 74 |
| USAGE | 1980 | 72 | 62 | 57 | 48 | 53 | 52 | 70 | 61 |
| | 1979 | 72 | 62 | 47 | 48 | 61 | 56 | 68 | 60 |
| | 1978 | 71 | 62 | 49 | 49 | 60 | 55 | 70 | 61 |
| | 1977 | 71 | 62 | 45 | 47 | 62 | 56 | 69 | 60 |
| MAP READING | 1980 | 76 | 65 | 47 | 48 | 66 | 59 | 79 | 67 |
| | 1979 | 76 | 65 | 45 | 47 | 63 | 57 | 78 | 66 |
| | 1978 | 74 | 64 | 44 | 47 | 60 | 55 | 76 | 65 |
| | 1977 | 75 | 64 | 42 | 46 | 64 | 58 | 76 | 65 |
| GRAPHICS AND TABLES | 1980 | 80 | 68 | 54 | 62 | 69 | 60 | 82 | 69 |
| | 1979 | 79 | 67 | 51 | 51 | 70 | 61 | 79 | 70 |
| | 1978 | 77 | 66 | 50 | 50 | 65 | 58 | 79 | 67 |
| | 1977 | 76 | 65 | 48 | 49 | 70 | 61 | 81 | 68 |
| REFERENCE MATERIALS | 1980 | 74 | 64 | 50 | 50 | 60 | 55 | 81 | 68 |
| | 1979 | 73 | 63 | 47 | 48 | 63 | 57 | 79 | 67 |
| | 1978 | 73 | 63 | 47 | 48 | 61 | 56 | 79 | 67 |
| | 1977 | 71 | 62 | 43 | 46 | 63 | 57 | 78 | 66 |
| MATH CONCEPTS | 1980 | 73 | 63 | 47 | 48 | 55 | 53 | 78 | 66 |
| | 1979 | 74 | 64 | 47 | 48 | 65 | 58 | 79 | 67 |
| | 1978 | 72 | 62 | 43 | 46 | 58 | 54 | 78 | 66 |
| | 1977 | 72 | 62 | 42 | 46 | 63 | 57 | 78 | 66 |
| MATH PROBLEMS | 1980 | 76 | 65 | 46 | 48 | 61 | 56 | 82 | 69 |
| | 1979 | 76 | 65 | 48 | 48 | 71 | 62 | 83 | 70 |
| | 1978 | 76 | 65 | 46 | 49 | 64 | 58 | 84 | 71 |
| | 1977 | 75 | 64 | 46 | 48 | 68 | 60 | 83 | 70 |

TABLE 42

IOWA TESTS OF BASIC SKILLS RESULTS
BY RACIAL/ETHNIC GROUPS FOR 1977 TO 1980, GRADE 5

(Scores reported are Percentile Ranks (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | WHITE | | BLACK | | HISPANIC | | ASIAN | |
|------------------------|------|-------|-----|-------|-----|----------|-----|-------|-----|
| | | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 76 | 65 | 39 | 44 | 53 | 52 | 77 | 66 |
| | 1979 | 74 | 64 | 38 | 43 | 63 | 57 | 78 | 66 |
| | 1978 | 73 | 63 | 35 | 42 | 51 | 51 | 77 | 66 |
| | 1977 | 71 | 60 | 30 | 39 | 54 | 52 | 77 | 66 |
| VOCABULARY | 1980 | 71 | 62 | 38 | 44 | 50 | 50 | 66 | 59 |
| | 1979 | 70 | 61 | 37 | 43 | 59 | 55 | 64 | 58 |
| | 1978 | 68 | 60 | 36 | 42 | 47 | 48 | 65 | 58 |
| | 1977 | 67 | 59 | 30 | 39 | 53 | 52 | 64 | 58 |
| READING | 1980 | 68 | 60 | 36 | 42 | 48 | 49 | 66 | 59 |
| | 1979 | 67 | 59 | 35 | 42 | 55 | 53 | 67 | 59 |
| | 1978 | 66 | 59 | 33 | 41 | 45 | 47 | 67 | 59 |
| | 1977 | 63 | 57 | 28 | 38 | 47 | 48 | 69 | 60 |
| SPELLING | 1980 | 70 | 61 | 51 | 51 | 55 | 53 | 81 | 68 |
| | 1979 | 69 | 60 | 48 | 49 | 61 | 56 | 82 | 69 |
| | 1978 | 66 | 59 | 45 | 47 | 52 | 51 | 78 | 66 |
| | 1977 | 63 | 57 | 38 | 44 | 53 | 52 | 78 | 66 |
| CAPITALIZATION | 1980 | 74 | 64 | 48 | 49 | 57 | 54 | 79 | 67 |
| | 1979 | 72 | 62 | 47 | 48 | 66 | 59 | 79 | 67 |
| | 1978 | 70 | 61 | 43 | 46 | 53 | 52 | 79 | 67 |
| | 1977 | 69 | 60 | 39 | 44 | 58 | 54 | 78 | 66 |
| PUNCTUATION | 1980 | 72 | 62 | 47 | 48 | 58 | 54 | 79 | 67 |
| | 1979 | 69 | 60 | 44 | 47 | 63 | 57 | 79 | 67 |
| | 1978 | 69 | 60 | 40 | 45 | 57 | 54 | 78 | 66 |
| | 1977 | 66 | 59 | 37 | 43 | 55 | 53 | 78 | 66 |
| USAGE | 1980 | 72 | 62 | 43 | 46 | 53 | 52 | 66 | 59 |
| | 1979 | 71 | 62 | 41 | 45 | 58 | 54 | 66 | 59 |
| | 1978 | 70 | 61 | 39 | 44 | 52 | 51 | 66 | 59 |
| | 1977 | 69 | 60 | 35 | 42 | 53 | 52 | 67 | 59 |
| MAP READING | 1980 | 73 | 63 | 39 | 44 | 54 | 52 | 78 | 66 |
| | 1979 | 72 | 62 | 39 | 44 | 63 | 57 | 78 | 66 |
| | 1978 | 72 | 62 | 38 | 44 | 53 | 52 | 77 | 66 |
| | 1977 | 71 | 62 | 35 | 42 | 62 | 56 | 78 | 66 |
| GRAPHS AND TABLES | 1980 | 77 | 66 | 45 | 47 | 61 | 56 | 82 | 69 |
| | 1979 | 76 | 65 | 41 | 45 | 66 | 59 | 81 | 68 |
| | 1978 | 75 | 64 | 42 | 46 | 54 | 52 | 79 | 67 |
| | 1977 | 73 | 63 | 39 | 44 | 56 | 53 | 79 | 67 |
| REFERENCE MATERIALS | 1980 | 72 | 62 | 42 | 46 | 54 | 52 | 76 | 65 |
| | 1979 | 70 | 61 | 42 | 46 | 63 | 57 | 76 | 65 |
| | 1978 | 70 | 61 | 41 | 45 | 53 | 52 | 75 | 64 |
| | 1977 | 66 | 59 | 35 | 42 | 55 | 53 | 76 | 65 |
| MATH CONCEPTS | 1980 | 76 | 65 | 40 | 45 | 52 | 51 | 82 | 69 |
| | 1979 | 75 | 64 | 39 | 44 | 64 | 58 | 84 | 71 |
| | 1978 | 76 | 65 | 39 | 44 | 55 | 53 | 84 | 71 |
| | 1977 | 73 | 63 | 35 | 42 | 60 | 55 | 85 | 72 |
| MATH PROBLEMS | 1980 | 72 | 62 | 38 | 44 | 52 | 51 | 80 | 68 |
| | 1979 | 74 | 61 | 37 | 43 | 61 | 55 | 79 | 67 |
| | 1978 | 70 | 61 | 36 | 42 | 52 | 51 | 79 | 67 |
| | 1977 | 68 | 60 | 32 | 40 | 55 | 53 | 80 | 68 |

TABLE A3

IOWA TESTS OF BASIC SKILLS RESULTS
BY RACIAL/ETHNIC GROUPS FOR 1977 TO 1980, GRADE 7

(Scores reported are Percentile Ranks (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | WHITE | | BLACK | | HISPANIC | | ASIAN | |
|------------------------|------|-------|-----|-------|-----|----------|-----|-------|-----|
| | | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 68 | 60 | 33 | 41 | 50 | 50 | 74 | 64 |
| | 1979 | 64 | 58 | 28 | 38 | 45 | 47 | 75 | 64 |
| | 1978 | 63 | 57 | 26 | 36 | 51 | 51 | 73 | 63 |
| | 1977 | 63 | 57 | 22 | 34 | 49 | 49 | 76 | 65 |
| VOCABULARY | 1980 | 63 | 57 | 35 | 42 | 48 | 49 | 61 | 56 |
| | 1979 | 61 | 56 | 29 | 38 | 41 | 45 | 63 | 57 |
| | 1978 | 62 | 56 | 28 | 38 | 47 | 48 | 63 | 57 |
| | 1977 | 61 | 56 | 25 | 36 | 45 | 47 | 67 | 59 |
| READING | 1980 | 61 | 56 | 31 | 40 | 43 | 46 | 60 | 55 |
| | 1979 | 57 | 54 | 27 | 37 | 40 | 45 | 63 | 57 |
| | 1978 | 57 | 54 | 25 | 36 | 45 | 47 | 62 | 56 |
| | 1977 | 57 | 54 | 22 | 34 | 43 | 46 | 64 | 58 |
| SPELLING | 1980 | 59 | 55 | 39 | 44 | 50 | 50 | 74 | 64 |
| | 1979 | 58 | 54 | 35 | 42 | 45 | 47 | 74 | 64 |
| | 1978 | 56 | 53 | 32 | 40 | 50 | 50 | 75 | 64 |
| | 1977 | 56 | 53 | 31 | 40 | 50 | 50 | 74 | 64 |
| CAPITALIZATION | 1980 | 67 | 59 | 41 | 45 | 55 | 53 | 76 | 65 |
| | 1979 | 65 | 58 | 37 | 43 | 52 | 51 | 75 | 64 |
| | 1978 | 63 | 57 | 34 | 41 | 55 | 53 | 73 | 63 |
| | 1977 | 63 | 57 | 31 | 40 | 52 | 51 | 76 | 65 |
| PUNCTUATION | 1980 | 65 | 58 | 37 | 43 | 52 | 51 | 76 | 65 |
| | 1979 | 63 | 57 | 34 | 41 | 50 | 50 | 76 | 65 |
| | 1978 | 62 | 56 | 32 | 40 | 54 | 52 | 74 | 64 |
| | 1977 | 61 | 56 | 29 | 38 | 50 | 50 | 76 | 65 |
| USAGE | 1980 | 63 | 57 | 37 | 43 | 50 | 50 | 61 | 56 |
| | 1979 | 62 | 56 | 33 | 41 | 45 | 47 | 66 | 59 |
| | 1978 | 61 | 56 | 30 | 39 | 50 | 50 | 60 | 55 |
| | 1977 | 61 | 56 | 28 | 38 | 46 | 48 | 64 | 58 |
| MAP READING | 1980 | 70 | 61 | 39 | 44 | 55 | 53 | 79 | 67 |
| | 1979 | 67 | 59 | 34 | 41 | 54 | 52 | 77 | 66 |
| | 1978 | 67 | 59 | 32 | 40 | 58 | 54 | 78 | 66 |
| | 1977 | 68 | 59 | 29 | 38 | 58 | 54 | 81 | 68 |
| GRAPHS AND TABLES | 1980 | 67 | 59 | 36 | 42 | 48 | 49 | 72 | 62 |
| | 1979 | 64 | 58 | 32 | 40 | 49 | 49 | 73 | 63 |
| | 1978 | 63 | 57 | 29 | 38 | 47 | 48 | 70 | 61 |
| | 1977 | 63 | 57 | 27 | 37 | 46 | 48 | 74 | 64 |
| REFERENCE MATERIALS | 1980 | 65 | 58 | 37 | 43 | 51 | 51 | 75 | 64 |
| | 1979 | 62 | 56 | 34 | 41 | 48 | 49 | 76 | 65 |
| | 1978 | 61 | 56 | 32 | 40 | 52 | 51 | 71 | 62 |
| | 1977 | 60 | 56 | 28 | 38 | 49 | 49 | 74 | 64 |
| MATH CONCEPTS | 1980 | 68 | 60 | 35 | 42 | 53 | 52 | 82 | 69 |
| | 1979 | 66 | 59 | 31 | 40 | 50 | 50 | 81 | 68 |
| | 1978 | 65 | 58 | 28 | 38 | 55 | 53 | 81 | 68 |
| | 1977 | 65 | 58 | 25 | 36 | 50 | 50 | 83 | 70 |
| MATH PROBLEMS | 1980 | 63 | 57 | 31 | 40 | 47 | 48 | 74 | 64 |
| | 1979 | 61 | 56 | 28 | 38 | 45 | 47 | 75 | 64 |
| | 1978 | 60 | 55 | 27 | 37 | 48 | 49 | 73 | 63 |
| | 1977 | 59 | 55 | 24 | 35 | 46 | 48 | 74 | 64 |

TABLE A4

IOWA TESTS OF BASIC SKILLS RESULTS
BY RACIAL/ETHNIC GROUPS FOR 1977 TO 1980, GRADE 9

(Scores reported are Percentile Ranks (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | WHITE | | BLACK | | HISPANIC | | ASIAN | |
|------------------------|------|-------|-----|-------|-----|----------|-----|-------|-----|
| | | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 64 | 58 | 28 | 38 | 50 | 50 | 69 | 60 |
| | 1979 | 64 | 58 | 24 | 35 | 47 | 48 | 70 | 61 |
| | 1978 | 64 | 58 | 24 | 35 | 45 | 47 | 72 | 62 |
| | 1977 | 64 | 58 | 24 | 35 | 47 | 48 | 72 | 62 |
| VOCABULARY | 1980 | 63 | 57 | 30 | 39 | 47 | 48 | 58 | 54 |
| | 1979 | 63 | 57 | 27 | 37 | 44 | 47 | 59 | 55 |
| | 1978 | 64 | 58 | 27 | 37 | 46 | 48 | 65 | 58 |
| | 1977 | 63 | 57 | 27 | 37 | 45 | 47 | 63 | 57 |
| READING | 1980 | 59 | 55 | 27 | 37 | 45 | 47 | 57 | 54 |
| | 1979 | 59 | 55 | 24 | 35 | 42 | 46 | 58 | 54 |
| | 1978 | 59 | 55 | 25 | 36 | 40 | 45 | 61 | 56 |
| | 1977 | 59 | 55 | 24 | 35 | 42 | 46 | 59 | 55 |
| SPELLING | 1980 | 56 | 53 | 35 | 42 | 50 | 50 | 70 | 61 |
| | 1979 | 57 | 54 | 33 | 41 | 49 | 49 | 71 | 62 |
| | 1978 | 56 | 53 | 31 | 40 | 47 | 48 | 73 | 62 |
| | 1977 | 56 | 53 | 31 | 40 | 49 | 49 | 72 | 62 |
| CAPITALIZATION | 1980 | 61 | 56 | 34 | 41 | 52 | 51 | 70 | 61 |
| | 1979 | 62 | 56 | 32 | 40 | 46 | 48 | 72 | 62 |
| | 1978 | 61 | 56 | 31 | 40 | 49 | 48 | 72 | 62 |
| | 1977 | 60 | 55 | 30 | 39 | 50 | 50 | 71 | 62 |
| PUNCTUATION | 1980 | 63 | 57 | 34 | 41 | 54 | 52 | 72 | 62 |
| | 1979 | 62 | 56 | 31 | 40 | 50 | 50 | 73 | 63 |
| | 1978 | 60 | 55 | 33 | 41 | 51 | 51 | 73 | 63 |
| | 1977 | 60 | 55 | 29 | 38 | 50 | 50 | 73 | 63 |
| USAGE | 1980 | 60 | 55 | 31 | 40 | 50 | 50 | 61 | 56 |
| | 1979 | 59 | 55 | 30 | 39 | 47 | 48 | 61 | 56 |
| | 1978 | 59 | 55 | 29 | 38 | 48 | 49 | 64 | 58 |
| | 1977 | 59 | 55 | 30 | 39 | 50 | 50 | 63 | 57 |
| MAP READING | 1980 | 68 | 60 | 31 | 40 | 56 | 53 | 73 | 63 |
| | 1979 | 69 | 60 | 27 | 37 | 55 | 53 | 73 | 63 |
| | 1978 | 68 | 60 | 28 | 38 | 52 | 51 | 73 | 63 |
| | 1977 | 68 | 60 | 28 | 38 | 52 | 51 | 75 | 64 |
| GRAPHS AND TABLES | 1980 | 62 | 56 | 31 | 40 | 47 | 48 | 63 | 57 |
| | 1979 | 62 | 56 | 27 | 37 | 46 | 48 | 65 | 58 |
| | 1978 | 62 | 56 | 29 | 38 | 42 | 46 | 66 | 59 |
| | 1977 | 61 | 56 | 29 | 38 | 45 | 47 | 68 | 60 |
| REFERENCE MATERIALS | 1980 | 63 | 57 | 31 | 40 | 50 | 50 | 68 | 60 |
| | 1979 | 62 | 56 | 28 | 38 | 48 | 49 | 69 | 60 |
| | 1978 | 61 | 56 | 28 | 38 | 44 | 47 | 70 | 61 |
| | 1977 | 61 | 56 | 27 | 37 | 46 | 48 | 67 | 59 |
| MATH CONCEPTS | 1980 | 58 | 54 | 27 | 37 | 48 | 49 | 71 | 62 |
| | 1979 | 58 | 54 | 24 | 35 | 46 | 48 | 73 | 63 |
| | 1978 | 59 | 55 | 23 | 34 | 43 | 46 | 74 | 64 |
| | 1977 | 60 | 55 | 24 | 35 | 45 | 47 | 76 | 65 |
| MATH PROBLEMS | 1980 | 60 | 55 | 28 | 38 | 46 | 48 | 71 | 62 |
| | 1979 | 58 | 54 | 24 | 35 | 43 | 46 | 71 | 62 |
| | 1978 | 58 | 54 | 25 | 36 | 38 | 44 | 70 | 61 |
| | 1977 | 60 | 55 | 22 | 34 | 39 | 44 | 70 | 61 |

TABLE A5

TESTS OF ACADEMIC PROGRESS RESULTS
BY RACIAL/ETHNIC GROUPS FOR 1977 TO 1980, GRADE 11

(Scores reported are Percentile Ranks (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | WHITE | | BLACK | | HISPANIC | | ASIAN | |
|----------------|------|-------|-----|-------|-----|----------|-----|-------|-----|
| | | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 68 | 60 | 28 | 38 | 46 | 48 | 73 | 63 |
| | 1979 | 66 | 59 | 27 | 37 | 49 | 48 | 72 | 62 |
| | 1978 | 65 | 58 | 27 | 37 | 45 | 47 | 71 | 62 |
| | 1977 | 67 | 59 | 25 | 34 | 44 | 47 | 72 | 62 |
| SOCIAL STUDIES | 1980 | 59 | 55 | 24 | 35 | 37 | 43 | 59 | 55 |
| | 1979 | 58 | 54 | 22 | 34 | 43 | 46 | 57 | 54 |
| | 1978 | 58 | 54 | 24 | 35 | 39 | 44 | 57 | 54 |
| | 1977 | 60 | 55 | 22 | 34 | 38 | 44 | 58 | 54 |
| COMPOSITION | 1980 | 64 | 58 | 30 | 39 | 45 | 47 | 70 | 61 |
| | 1979 | 63 | 57 | 30 | 39 | 50 | 50 | 69 | 60 |
| | 1978 | 62 | 56 | 30 | 39 | 44 | 47 | 65 | 58 |
| | 1977 | 63 | 57 | 27 | 36 | 44 | 47 | 64 | 58 |
| SCIENCE | 1980 | 68 | 60 | 35 | 42 | 49 | 49 | 75 | 64 |
| | 1979 | 67 | 59 | 31 | 40 | 51 | 51 | 69 | 60 |
| | 1978 | 65 | 58 | 35 | 42 | 48 | 49 | 76 | 63 |
| | 1977 | 66 | 59 | 30 | 38 | 45 | 47 | 64 | 58 |
| READING | 1980 | 63 | 57 | 28 | 38 | 44 | 47 | 65 | 58 |
| | 1979 | 63 | 57 | 27 | 37 | 49 | 49 | 64 | 58 |
| | 1978 | 62 | 56 | 27 | 37 | 48 | 49 | 63 | 57 |
| | 1977 | 63 | 57 | 26 | 36 | 46 | 48 | 63 | 57 |
| MATHEMATICS | 1980 | 70 | 61 | 34 | 41 | 53 | 52 | 85 | 72 |
| | 1979 | 70 | 61 | 32 | 40 | 58 | 54 | 85 | 72 |
| | 1978 | 68 | 60 | 30 | 39 | 49 | 49 | 86 | 73 |
| | 1977 | 69 | 60 | 30 | 38 | 50 | 50 | 83 | 70 |
| LITERATURE | 1980 | 62 | 56 | 30 | 39 | 44 | 47 | 62 | 56 |
| | 1979 | 60 | 55 | 28 | 38 | 44 | 47 | 60 | 55 |
| | 1978 | 60 | 55 | 30 | 39 | 44 | 47 | 57 | 54 |
| | 1977 | 62 | 56 | 28 | 38 | 41 | 45 | 58 | 54 |

TABLE A6

COGNITIVE ABILITIES TEST RESULTS
BY RACIAL/ETHNIC GROUPS FOR 1977 TO 1980, GRADES 5, 6, 7, AND 9

Values reported are Standard Age Scores (SAS), Percentile Ranks (PR) and Normal Curve Equivalents (NCE) for the student with the mean score.*

| | | WHITE | | | BLACK | | | HISPANIC | | | ASIAN | | |
|--------------|------|-------|----|-----|-------|----|-----|----------|----|-----|-------|----|-----|
| | | SA | PR | NCE | SA | PR | NCE | SA | PR | NCE | SA | PR | NCE |
| GRADE 5 | | | | | | | | | | | | | |
| VERBAL | 1980 | 113 | 74 | 67 | 103 | 56 | 53 | 104 | 59 | 55 | 113 | 74 | 67 |
| | 1979 | 113 | 74 | 67 | 101 | 53 | 52 | 107 | 65 | 59 | 113 | 74 | 67 |
| | 1978 | 113 | 74 | 67 | 101 | 52 | 51 | 105 | 63 | 57 | 113 | 80 | 68 |
| | 1977 | 113 | 74 | 67 | 100 | 50 | 50 | 106 | 64 | 58 | 112 | 77 | 66 |
| QUANTITATIVE | 1980 | 113 | 83 | 71 | 102 | 57 | 54 | 107 | 72 | 62 | 121 | 90 | 77 |
| | 1979 | 113 | 83 | 71 | 102 | 54 | 52 | 112 | 76 | 65 | 120 | 89 | 76 |
| | 1978 | 113 | 83 | 71 | 101 | 54 | 52 | 109 | 71 | 62 | 120 | 89 | 76 |
| | 1977 | 113 | 83 | 71 | 101 | 52 | 51 | 110 | 73 | 63 | 119 | 88 | 75 |
| NONVERBAL | 1980 | 112 | 76 | 65 | 101 | 53 | 52 | 109 | 70 | 61 | 117 | 86 | 73 |
| | 1979 | 112 | 76 | 65 | 101 | 51 | 51 | 111 | 74 | 64 | 117 | 85 | 72 |
| | 1978 | 112 | 76 | 65 | 100 | 50 | 50 | 108 | 69 | 60 | 117 | 85 | 72 |
| | 1977 | 112 | 76 | 65 | 99 | 48 | 49 | 109 | 71 | 62 | 117 | 85 | 72 |
| GRADE 6 | | | | | | | | | | | | | |
| VERBAL | 1980 | 113 | 74 | 67 | 100 | 56 | 50 | 102 | 54 | 52 | 112 | 76 | 65 |
| | 1979 | 113 | 74 | 67 | 99 | 50 | 50 | 106 | 64 | 58 | 111 | 75 | 64 |
| | 1978 | 113 | 74 | 66 | 100 | 49 | 49 | 103 | 58 | 54 | 112 | 76 | 65 |
| | 1977 | 112 | 76 | 65 | 97 | 42 | 45 | 104 | 58 | 54 | 112 | 76 | 65 |
| QUANTITATIVE | 1980 | 113 | 78 | 66 | 99 | 47 | 48 | 104 | 54 | 52 | 117 | 85 | 72 |
| | 1979 | 113 | 78 | 66 | 99 | 47 | 48 | 108 | 64 | 60 | 117 | 85 | 72 |
| | 1978 | 113 | 78 | 66 | 98 | 46 | 48 | 105 | 61 | 56 | 117 | 85 | 72 |
| | 1977 | 112 | 76 | 65 | 96 | 41 | 45 | 105 | 63 | 57 | 117 | 86 | 73 |
| NONVERBAL | 1980 | 113 | 74 | 67 | 101 | 53 | 52 | 109 | 70 | 61 | 117 | 86 | 73 |
| | 1979 | 114 | 80 | 68 | 102 | 54 | 52 | 111 | 74 | 64 | 117 | 86 | 73 |
| | 1978 | 114 | 80 | 68 | 101 | 52 | 51 | 109 | 71 | 62 | 118 | 87 | 74 |
| | 1977 | 113 | 78 | 67 | 100 | 49 | 49 | 109 | 71 | 62 | 118 | 87 | 74 |
| GRADE 7 | | | | | | | | | | | | | |
| VERBAL | 1980 | 110 | 72 | 62 | 97 | 43 | 46 | 100 | 50 | 50 | 109 | 70 | 61 |
| | 1979 | 109 | 71 | 62 | 95 | 37 | 43 | 100 | 49 | 49 | 110 | 72 | 62 |
| | 1978 | 109 | 70 | 61 | 94 | 36 | 42 | 101 | 53 | 52 | 110 | 72 | 62 |
| | 1977 | 109 | 70 | 61 | 92 | 31 | 40 | 99 | 48 | 49 | 110 | 73 | 63 |
| QUANTITATIVE | 1980 | 112 | 76 | 65 | 98 | 44 | 47 | 103 | 57 | 54 | 117 | 86 | 73 |
| | 1979 | 111 | 74 | 64 | 96 | 39 | 44 | 102 | 55 | 53 | 117 | 86 | 73 |
| | 1978 | 110 | 73 | 63 | 95 | 37 | 43 | 105 | 63 | 57 | 117 | 86 | 73 |
| | 1977 | 110 | 73 | 63 | 93 | 32 | 40 | 103 | 57 | 54 | 118 | 87 | 74 |
| NONVERBAL | 1980 | 113 | 78 | 66 | 101 | 51 | 51 | 107 | 66 | 59 | 117 | 86 | 73 |
| | 1979 | 112 | 76 | 65 | 100 | 49 | 49 | 107 | 67 | 59 | 117 | 86 | 73 |
| | 1978 | 112 | 76 | 65 | 99 | 47 | 48 | 108 | 68 | 60 | 117 | 85 | 72 |
| | 1977 | 112 | 76 | 65 | 97 | 42 | 46 | 108 | 68 | 60 | 118 | 87 | 74 |
| GRADE 9 | | | | | | | | | | | | | |
| VERBAL | 1980 | 110 | 73 | 63 | 95 | 37 | 43 | 101 | 51 | 51 | 106 | 64 | 58 |
| | 1979 | 110 | 73 | 63 | 94 | 35 | 42 | 100 | 50 | 50 | 107 | 66 | 59 |
| | 1978 | 110 | 72 | 62 | 94 | 34 | 41 | 100 | 49 | 49 | 108 | 68 | 60 |
| | 1977 | 110 | 72 | 62 | 94 | 34 | 41 | 101 | 51 | 51 | 110 | 72 | 62 |
| QUANTITATIVE | 1980 | 113 | 78 | 66 | 98 | 44 | 47 | 107 | 66 | 59 | 118 | 87 | 74 |
| | 1979 | 112 | 77 | 66 | 96 | 39 | 44 | 105 | 64 | 58 | 118 | 87 | 74 |
| | 1978 | 112 | 77 | 66 | 95 | 38 | 44 | 104 | 60 | 55 | 118 | 87 | 74 |
| | 1977 | 113 | 78 | 66 | 96 | 40 | 45 | 105 | 62 | 56 | 119 | 88 | 75 |
| NONVERBAL | 1980 | 114 | 81 | 68 | 101 | 53 | 52 | 111 | 75 | 64 | 120 | 89 | 76 |
| | 1979 | 114 | 81 | 68 | 100 | 45 | 49 | 109 | 70 | 61 | 119 | 88 | 75 |
| | 1978 | 114 | 80 | 68 | 99 | 47 | 48 | 110 | 72 | 62 | 118 | 87 | 74 |
| | 1977 | 114 | 80 | 68 | 99 | 47 | 48 | 108 | 69 | 60 | 119 | 88 | 75 |

*Mean was computed for the Normal Curve Equivalent (NCE) scores.

TABLE A7

NUMBER AND PERCENTAGE OF ENROLLED ASIAN STUDENTS TESTED
FROM 1977 TO 1980

| 1977 | | | | 1978 | | |
|-------|-----------------------|--------------------------------------|----------------------|-----------------------|--------------------------------------|----------------------|
| Grade | 9/30/76 Enrollment | Number With Composite Score | Percentage Tested | 9/30/77 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 274 | 230 | 84 | 315 | 282 | 90 |
| 5 | 278 | 232 | 83 | 331 | 291 | 88 |
| 7 | 290 | 217 | 75 | 302 | 238 | 79 |
| 9 | 264 | 199 | 75 | 309 | 250 | 81 |
| 11 | 267 | 192 | 72 | 296 | 215 | 73 |
| Total | 1,373 | 1,070 | 78 | 1,553 | 1,276 | 82 |
| 1979 | | | | 1980 | | |
| Grade | 9/30/78 Enrollment | Number With Composite Score | Percentage Tested | 9/30/79 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 359 | 313 | 87 | 430 | 383 | 89 |
| 5 | 310 | 278 | 90 | 385 | 365 | 95 |
| 7 | 308 | 261 | 85 | 381 | 329 | 86 |
| 9 | 321 | 275 | 86 | 350 | 297 | 85 |
| 11 | 306 | 239 | 78 | 320 | 264 | 83 |
| Total | 1,604 | 1,366 | 85 | 1,866 | 1,638 | 88 |

TABLE A8

NUMBER AND PERCENTAGE OF ENROLLED BLACK STUDENTS TESTED
FROM 1977 TO 1980

| Grade | 1977 | | | 1978 | | |
|-------|-----------------------|--------------------------------------|----------------------|-----------------------|--------------------------------------|----------------------|
| | 9/30/76 Enrollment | Number With Composite Score | Percentage Tested | 9/30/77 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 795 | 749 | 94 | 802 | 751 | 94 |
| 5 | 791 | 758 | 96 | 800 | 779 | 97 |
| 7 | 912 | 815 | 89 | 813 | 762 | 94 |
| 9 | 820 | 722 | 88 | 853 | 732 | 86 |
| 11 | 807 | 585 | 72 | 801 | 613 | 77 |
| Total | 4,125 | 3,629 | 88 | 4,069 | 3,637 | 89 |
| Grade | 1979 | | | 1980 | | |
| | 9/30/78 Enrollment | Number With Composite Score | Percentage Tested | 9/30/79 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 813 | 779 | 96 | 801 | 750 | 94 |
| 5 | 838 | 815 | 97 | 834 | 806 | 97 |
| 7 | 816 | 772 | 95 | 854 | 778 | 91 |
| 9 | 903 | 806 | 89 | 898 | 739 | 82 |
| 11 | 845 | 520 | 73 | 874 | 662 | 76 |
| Total | 4,215 | 3,792 | 90 | 4,261 | 3,735 | 88 |

TABLE A9

NUMBER AND PERCENTAGE OF ENROLLED HISPANIC STUDENTS TESTED
FROM 1977 TO 1980

| Grade | 1977 | | | 1978 | | |
|-------|-----------------------|--------------------------------------|----------------------|-----------------------|--------------------------------------|----------------------|
| | 9/30/76 Enrollment | Number With Composite Score | Percentage Tested | 9/30/77 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 263 | 180 | 68 | 229 | 185 | 81 |
| 5 | 250 | 187 | 75 | 242 | 203 | 84 |
| 7 | 289 | 236 | 82 | 258 | 200 | 78 |
| 9 | 299 | 220 | 74 | 304 | 219 | 72 |
| 11 | 296 | 191 | 65 | 279 | 190 | 68 |
| Total | 1,397 | 1,014 | 73 | 1,312 | 997 | 76 |
| Grade | 1979 | | | 1980 | | |
| | 9/30/78 Enrollment | Number With Composite Score | Percentage Tested | 9/30/79 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 256 | 201 | 79 | 252 | 202 | 80 |
| 5 | 234 | 185 | 79 | 225 | 198 | 88 |
| 7 | 233 | 194 | 83 | 258 | 221 | 86 |
| 9 | 314 | 253 | 81 | 285 | 220 | 77 |
| 11 | 297 | 187 | 63 | 280 | 206 | 74 |
| Total | 1,334 | 1,020 | 76 | 1,300 | 1,047 | 81 |

TABLE A10

NUMBER AND PERCENTAGE OF ENROLLED WHITE STUDENTS TESTED
FROM 1977 TO 1980

| Grade | 1977 | | | 1978 | | |
|-------|-----------------------|--------------------------------------|----------------------|-----------------------|--------------------------------------|----------------------|
| | 9/30/76 Enrollment | Number With Composite Score | Percentage Tested | 9/30/77 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 6,417 | 6,184 | 96 | 6,542 | 6,374 | 97 |
| 5 | 6,736 | 6,568 | 98 | 6,439 | 6,261 | 97 |
| 7 | 7,884 | 7,374 | 94 | 7,145 | 6,678 | 93 |
| 9 | 8,472 | 7,650 | 90 | 8,141 | 7,328 | 90 |
| 11 | 8,647 | 7,232 | 84 | 8,412 | 7,146 | 85 |
| Total | 38,156 | 35,008 | 92 | 36,679 | 33,787 | 92 |
| Grade | 1979 | | | 1980 | | |
| | 9/30/78 Enrollment | Number With Composite Score | Percentage Tested | 9/30/79 Enrollment | Number With Composite Score | Percentage Tested |
| 3 | 6,014 | 5,859 | 97 | 5,406 | 5,259 | 97 |
| 5 | 6,160 | 5,977 | 97 | 6,227 | 6,087 | 98 |
| 7 | 6,697 | 6,263 | 94 | 6,096 | 5,818 | 95 |
| 9 | 7,854 | 7,115 | 91 | 7,230 | 6,418 | 89 |
| 11 | 8,296 | 6,751 | 81 | 7,839 | 6,684 | 85 |
| Total | 35,021 | 31,965 | 91 | 32,798 | 30,266 | 92 |

TABLE A11

IOWA TESTS OF BASIC SKILLS RESULTS BY SEX, 1978-1980
GRADES 3 AND 5(Scores reported are the Percentile Rank (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | GRADE 3 | | | | GRADE 5 | | | |
|---------------------|------|---------|-----|------|-----|---------|-----|------|-----|
| | | FEMALE | | MALE | | FEMALE | | MALE | |
| | | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 79 | 67 | 76 | 65 | 73 | 63 | 71 | 62 |
| | 1979 | 79 | 67 | 74 | 64 | 71 | 62 | 70 | 61 |
| | 1978 | 77 | 66 | 73 | 63 | 71 | 62 | 67 | 59 |
| VOCABULARY | 1980 | 73 | 63 | 71 | 62 | 67 | 59 | 67 | 59 |
| | 1979 | 73 | 63 | 71 | 62 | 65 | 58 | 66 | 59 |
| | 1978 | 71 | 62 | 70 | 61 | 65 | 58 | 63 | 57 |
| READING | 1980 | 71 | 62 | 67 | 59 | 65 | 58 | 63 | 57 |
| | 1979 | 72 | 62 | 66 | 59 | 63 | 57 | 63 | 57 |
| | 1978 | 70 | 61 | 66 | 59 | 64 | 58 | 60 | 55 |
| SPELLING | 1980 | 82 | 69 | 74 | 64 | 73 | 63 | 63 | 57 |
| | 1979 | 81 | 68 | 73 | 63 | 71 | 62 | 61 | 56 |
| | 1978 | 79 | 67 | 71 | 61 | 70 | 61 | 58 | 54 |
| CAPITALIZATION | 1980 | 83 | 70 | 76 | 65 | 74 | 64 | 68 | 60 |
| | 1979 | 82 | 69 | 75 | 64 | 73 | 63 | 66 | 59 |
| | 1978 | 82 | 69 | 73 | 63 | 72 | 62 | 63 | 57 |
| PUNCTUATION | 1980 | 85 | 72 | 78 | 66 | 74 | 64 | 63 | 57 |
| | 1979 | 85 | 72 | 78 | 66 | 72 | 62 | 61 | 56 |
| | 1978 | 84 | 71 | 76 | 65 | 72 | 62 | 59 | 55 |
| SCIENCE | 1980 | 72 | 62 | 66 | 59 | 72 | 62 | 65 | 58 |
| | 1979 | 73 | 63 | 65 | 58 | 71 | 62 | 63 | 57 |
| | 1978 | 73 | 63 | 65 | 58 | 70 | 61 | 62 | 56 |
| MAP READING | 1980 | 71 | 62 | 75 | 64 | 68 | 60 | 72 | 62 |
| | 1979 | 71 | 62 | 73 | 63 | 66 | 59 | 71 | 62 |
| | 1978 | 70 | 61 | 73 | 63 | 67 | 59 | 70 | 61 |
| GRAPHS AND TABLES | 1980 | 78 | 66 | 76 | 65 | 72 | 62 | 76 | 65 |
| | 1979 | 79 | 67 | 75 | 64 | 70 | 61 | 74 | 64 |
| | 1978 | 76 | 65 | 73 | 63 | 70 | 61 | 73 | 63 |
| REFERENCE MATERIALS | 1980 | 75 | 64 | 69 | 60 | 71 | 62 | 65 | 58 |
| | 1979 | 76 | 65 | 66 | 59 | 70 | 61 | 64 | 58 |
| | 1978 | 74 | 64 | 66 | 59 | 70 | 61 | 62 | 56 |
| MATH CONCEPTS | 1980 | 70 | 61 | 71 | 62 | 70 | 61 | 73 | 63 |
| | 1979 | 71 | 62 | 72 | 62 | 70 | 61 | 73 | 63 |
| | 1978 | 69 | 60 | 70 | 61 | 71 | 62 | 73 | 63 |
| MATH PROBLEMS | 1980 | 73 | 63 | 72 | 62 | 68 | 60 | 69 | 60 |
| | 1979 | 75 | 64 | 74 | 63 | 66 | 59 | 67 | 59 |
| | 1978 | 74 | 64 | 72 | 62 | 71 | 59 | 65 | 58 |

TABLE A12

IOWA TESTS OF BASIC SKILLS RESULTS BY SEX, 1978-1980
GRADES 7 AND 9(Scores reported are the Percentile Rank (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | GRADE 7 | | | | GRADE 9 | | | |
|---------------------|------|---------|-----|------|-----|---------|-----|------|-----|
| | | FEMALE | | MALE | | FEMALE | | MALE | |
| | | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 65 | 58 | 63 | 57 | 62 | 56 | 60 | 55 |
| | 1979 | 63 | 57 | 58 | 54 | 60 | 55 | 60 | 55 |
| | 1978 | 62 | 56 | 58 | 54 | 62 | 56 | 60 | 55 |
| VOCABULARY | 1980 | 60 | 55 | 60 | 55 | 60 | 55 | 60 | 55 |
| | 1979 | 57 | 54 | 57 | 54 | 58 | 54 | 54 | 55 |
| | 1978 | 58 | 54 | 57 | 54 | 61 | 56 | 61 | 56 |
| READING | 1980 | 57 | 54 | 56 | 53 | 55 | 53 | 54 | 52 |
| | 1979 | 55 | 53 | 52 | 51 | 55 | 53 | 49 | 52 |
| | 1978 | 55 | 53 | 52 | 51 | 56 | 53 | 47 | 52 |
| SPELLING | 1980 | 63 | 57 | 51 | 51 | 61 | 56 | 49 | 49 |
| | 1979 | 63 | 57 | 49 | 49 | 62 | 56 | 53 | 49 |
| | 1978 | 61 | 55 | 48 | 49 | 61 | 56 | 52 | 48 |
| CAPITALIZATION | 1980 | 69 | 60 | 59 | 55 | 63 | 57 | 52 | 51 |
| | 1979 | 68 | 60 | 56 | 53 | 63 | 57 | 53 | 52 |
| | 1978 | 65 | 58 | 54 | 52 | 63 | 57 | 52 | 51 |
| PUNCTUATION | 1980 | 69 | 60 | 56 | 53 | 65 | 58 | 54 | 52 |
| | 1979 | 67 | 59 | 53 | 52 | 63 | 57 | 50 | 52 |
| | 1978 | 65 | 58 | 52 | 51 | 63 | 57 | 50 | 51 |
| USAGE | 1980 | 65 | 58 | 55 | 53 | 63 | 57 | 51 | 51 |
| | 1979 | 64 | 58 | 51 | 51 | 61 | 56 | 69 | 50 |
| | 1978 | 63 | 57 | 51 | 51 | 62 | 56 | 68 | 50 |
| MAP READING | 1980 | 64 | 58 | 69 | 60 | 60 | 55 | 69 | 60 |
| | 1979 | 62 | 56 | 66 | 59 | 60 | 55 | 61 | 60 |
| | 1978 | 61 | 56 | 67 | 59 | 60 | 55 | 60 | 60 |
| GRAPHS AND TABLES | 1980 | 63 | 57 | 63 | 57 | 56 | 53 | 61 | 56 |
| | 1979 | 61 | 56 | 61 | 56 | 55 | 53 | 56 | 56 |
| | 1978 | 60 | 55 | 60 | 55 | 56 | 53 | 55 | 55 |
| REFERENCE MATERIALS | 1980 | 65 | 58 | 59 | 55 | 62 | 56 | 57 | 54 |
| | 1979 | 63 | 57 | 55 | 53 | 61 | 56 | 57 | 53 |
| | 1978 | 62 | 56 | 54 | 52 | 61 | 56 | 57 | 53 |
| MATH CONCEPTS | 1980 | 63 | 57 | 66 | 59 | 53 | 52 | 58 | 54 |
| | 1979 | 62 | 56 | 63 | 57 | 52 | 51 | 56 | 54 |
| | 1978 | 61 | 56 | 63 | 57 | 53 | 52 | 57 | 54 |
| MATH PROBLEMS | 1980 | 59 | 55 | 61 | 56 | 54 | 52 | 59 | 55 |
| | 1979 | 56 | 53 | 58 | 54 | 52 | 51 | 60 | 53 |
| | 1978 | 55 | 53 | 58 | 54 | 52 | 51 | 60 | 54 |

TABLE A13

TESTS OF ACADEMIC PROGRESS RESULTS BY SEX, 1978-1980
GRADE 11

(Scores reported are the Percentile Rank (PR)
for each Normal Curve Equivalent (NCE) mean)

| SUBTEST | | FEMALE | | MALE | |
|----------------|------|--------|-----|------|-----|
| | | PR | NCE | PR | NCE |
| COMPOSITE | 1980 | 63 | 57 | 65 | 58 |
| | 1979 | 62 | 56 | 63 | 57 |
| | 1978 | 63 | 57 | 62 | 56 |
| SOCIAL STUDIES | 1980 | 50 | 50 | 60 | 55 |
| | 1979 | 50 | 50 | 58 | 54 |
| | 1978 | 51 | 51 | 58 | 54 |
| COMPOSITION | 1980 | 68 | 60 | 54 | 52 |
| | 1979 | 67 | 59 | 53 | 52 |
| | 1978 | 66 | 59 | 51 | 51 |
| SCIENCE | 1980 | 60 | 55 | 70 | 61 |
| | 1979 | 60 | 55 | 69 | 60 |
| | 1978 | 59 | 55 | 67 | 59 |
| READING | 1980 | 59 | 55 | 60 | 55 |
| | 1979 | 59 | 55 | 59 | 55 |
| | 1978 | 60 | 55 | 57 | 54 |
| MATHEMATICS | 1980 | 64 | 58 | 71 | 62 |
| | 1979 | 63 | 57 | 71 | 62 |
| | 1978 | 63 | 57 | 68 | 60 |
| LITERATURE | 1980 | 60 | 55 | 56 | 53 |
| | 1979 | 60 | 55 | 54 | 52 |
| | 1978 | 60 | 55 | 53 | 52 |

TABLE A14

COGNITIVE ABILITIES TEST RESULTS BY SEX, 1978-1980
GRADES 3, 5, 7, AND 9

(Scores reported are Standard Age Scores (SAS), Percentile Ranks (PR) and Normal Curve Equivalent (NCE) for the student with the mean score.)*

| SUBTEST | | GRADE 3 | | | | | | GRADE 5 | | | | | |
|--------------|------|---------|----|-----|------|----|-----|---------|----|-----|------|----|-----|
| | | FEMALE | | | MALE | | | FEMALE | | | MALE | | |
| | | SAS | PR | NCE | SAS | PR | NCE | SAS | PR | NCE | SAS | PR | NCE |
| VERBAL | 1980 | 113 | 79 | 67 | 111 | 74 | 64 | 113 | 78 | 66 | 110 | 73 | 63 |
| | 1979 | 113 | 79 | 67 | 110 | 73 | 63 | 112 | 76 | 65 | 110 | 73 | 63 |
| | 1978 | 113 | 79 | 67 | 110 | 73 | 63 | 113 | 78 | 66 | 110 | 72 | 62 |
| QUANTITATIVE | 1980 | 114 | 81 | 68 | 115 | 82 | 69 | 111 | 74 | 64 | 112 | 76 | 65 |
| | 1979 | 115 | 82 | 69 | 114 | 81 | 68 | 111 | 74 | 64 | 112 | 76 | 65 |
| | 1978 | 115 | 82 | 69 | 114 | 81 | 68 | 111 | 75 | 64 | 111 | 75 | 64 |
| NONVERBAL | 1980 | 112 | 76 | 65 | 111 | 75 | 64 | 113 | 78 | 66 | 112 | 77 | 66 |
| | 1979 | 112 | 76 | 65 | 111 | 74 | 64 | 113 | 79 | 67 | 112 | 77 | 66 |
| | 1978 | 112 | 76 | 65 | 110 | 73 | 63 | 113 | 79 | 67 | 112 | 76 | 65 |
| SUBTEST | | GRADE 7 | | | | | | GRADE 9 | | | | | |
| | | FEMALE | | | MALE | | | FEMALE | | | MALE | | |
| | | SAS | PR | NCE | SAS | PR | NCE | SAS | PR | NCE | SAS | PR | NCE |
| VERBAL | 1980 | 109 | 70 | 61 | 107 | 66 | 59 | 109 | 71 | 62 | 107 | 66 | 59 |
| | 1979 | 109 | 70 | 61 | 106 | 64 | 58 | 109 | 70 | 61 | 107 | 66 | 59 |
| | 1978 | 108 | 69 | 60 | 105 | 63 | 57 | 109 | 70 | 61 | 107 | 65 | 58 |
| QUANTITATIVE | 1980 | 110 | 73 | 63 | 110 | 73 | 63 | 111 | 74 | 64 | 112 | 76 | 65 |
| | 1979 | 109 | 71 | 62 | 109 | 70 | 61 | 110 | 73 | 63 | 111 | 75 | 64 |
| | 1978 | 109 | 70 | 61 | 109 | 70 | 61 | 110 | 73 | 63 | 111 | 75 | 64 |
| NONVERBAL | 1980 | 112 | 76 | 65 | 111 | 74 | 64 | 113 | 79 | 67 | 113 | 79 | 67 |
| | 1979 | 112 | 76 | 65 | 110 | 73 | 63 | 113 | 78 | 66 | 113 | 79 | 67 |
| | 1978 | 111 | 74 | 64 | 110 | 73 | 63 | 113 | 78 | 66 | 112 | 77 | 66 |

*Mean was computed for the Normal Curve Equivalent (NCE) scores.

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TABLE A15

COMPARISON OF TEST SCORES OF MALES AND FEMALES WITHIN RACIAL/ETHNIC GROUPS, 1980
GRADE 3(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | WHITE (N=2685)* | | | | BLACK (N=351) | | | | ASIAN (N=190) | | | | HISPANIC (N=112) | | | |
|----------------------------------|--------------------|-----|--------|-----|------------------|-----|--------|-----|------------------|-----|--------|-----|---------------------|-----|--------|-----|
| | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | |
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 78 | 66 | 82 | 69 | 50 | 50 | 54 | 52 | 82 | 69 | 84 | 71 | 65 | 58 | 61 | 56 |
| VOCABULARY | 74 | 64 | 76 | 65 | 51 | 51 | 51 | 51 | 70 | 61 | 72 | 62 | 53 | 52 | 53 | 52 |
| READING COMPREHENSION | 70 | 61 | 75 | 64 | 45 | 47 | 48 | 49 | 66 | 59 | 71 | 62 | 51 | 51 | 50 | 50 |
| SPELLING | 75 | 64 | 83 | 70 | 62 | 56 | 72 | 62 | 84 | 71 | 89 | 76 | 69 | 60 | 69 | 60 |
| CAPITALIZATION | 77 | 66 | 84 | 71 | 60 | 55 | 66 | 59 | 85 | 72 | 89 | 76 | 70 | 61 | 74 | 64 |
| PUNCTUATION | 80 | 68 | 86 | 73 | 56 | 53 | 66 | 59 | 87 | 74 | 92 | 80 | 73 | 63 | 74 | 64 |
| LANGUAGE USAGE | 69 | 60 | 76 | 65 | 47 | 48 | 52 | 51 | 67 | 59 | 73 | 63 | 51 | 51 | 56 | 53 |
| MAP READING | 77 | 66 | 74 | 64 | 49 | 49 | 45 | 47 | 81 | 68 | 77 | 66 | 70 | 61 | 62 | 56 |
| GRAPHS AND TABLES | 79 | 67 | 81 | 68 | 51 | 51 | 57 | 54 | 82 | 69 | 83 | 70 | 71 | 62 | 65 | 58 |
| REFERENCE MATERIALS | 70 | 61 | 78 | 66 | 47 | 48 | 54 | 52 | 79 | 67 | 83 | 70 | 62 | 56 | 57 | 54 |
| MATH CONCEPTS | 73 | 63 | 73 | 63 | 48 | 49 | 46 | 48 | 77 | 66 | 79 | 67 | 59 | 55 | 50 | 50 |
| MATH PROBLEM SOLVING | 74 | 64 | 77 | 66 | 46 | 48 | 46 | 48 | 81 | 68 | 83 | 70 | 65 | 58 | 56 | 53 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 76 | 65 | 83 | 70 | 53 | 52 | 58 | 54 | 76 | 65 | 83 | 70 | 61 | 56 | 56 | 53 |
| QUANTITATIVE | 83 | 70 | 83 | 70 | 57 | 54 | 57 | 54 | 90 | 77 | 90 | 77 | 75 | 64 | 66 | 59 |
| NONVERBAL | 76 | 65 | 79 | 67 | 50 | 50 | 55 | 53 | 85 | 72 | 87 | 74 | 73 | 63 | 65 | 58 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A16

COMPARISON OF TEST SCORES OF MALES AND FEMALES WITHIN RACIAL/ETHNIC GROUPS, 1980
GRADE 5(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | WHITE (N=3015)* | | | | BLACK (N=3072) | | | | ASIAN (N=187) | | | | HISPANIC (N=110) | | | |
|----------------------------------|--------------------|-----|--------|-----|-------------------|-----|--------|-----|------------------|-----|--------|-----|---------------------|-----|--------|-----|
| | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | |
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 75 | 64 | 76 | 65 | 37 | 43 | 42 | 46 | 74 | 64 | 81 | 68 | 50 | 50 | 56 | 53 |
| VOCABULARY | 71 | 62 | 70 | 61 | 39 | 44 | 38 | 44 | 63 | 57 | 69 | 60 | 50 | 50 | 51 | 51 |
| READING COMPREHENSION | 67 | 59 | 69 | 60 | 32 | 40 | 38 | 44 | 62 | 56 | 71 | 62 | 44 | 47 | 51 | 51 |
| SPELLING | 65 | 58 | 75 | 64 | 44 | 47 | 57 | 54 | 76 | 65 | 84 | 71 | 49 | 49 | 63 | 57 |
| CAPITALIZATION | 71 | 62 | 77 | 66 | 43 | 46 | 51 | 51 | 75 | 64 | 82 | 69 | 53 | 52 | 62 | 56 |
| PUNCTUATION | 67 | 59 | 76 | 65 | 39 | 44 | 53 | 52 | 74 | 64 | 84 | 71 | 53 | 52 | 63 | 57 |
| LANGUAGE USAGE | 69 | 60 | 75 | 64 | 39 | 44 | 47 | 48 | 59 | 55 | 73 | 63 | 50 | 50 | 57 | 54 |
| MAP-READING | 76 | 65 | 71 | 62 | 39 | 44 | 39 | 44 | 79 | 67 | 76 | 65 | 51 | 51 | 57 | 54 |
| GRAPHS AND TABLES | 80 | 68 | 75 | 64 | 46 | 48 | 44 | 47 | 80 | 68 | 82 | 69 | 63 | 57 | 60 | 55 |
| REFERENCE MATERIALS | 69 | 60 | 74 | 64 | 38 | 44 | 46 | 48 | 73 | 63 | 79 | 67 | 50 | 50 | 59 | 55 |
| MATH CONCEPTS | 78 | 66 | 73 | 63 | 39 | 44 | 41 | 45 | 80 | 68 | 83 | 70 | 51 | 51 | 54 | 52 |
| MATH PROBLEM SOLVING | 72 | 62 | 71 | 62 | 39 | 44 | 38 | 44 | 79 | 67 | 81 | 68 | 53 | 52 | 50 | 50 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 77 | 66 | 81 | 68 | 47 | 48 | 53 | 52 | 73 | 63 | 81 | 68 | 52 | 51 | 57 | 54 |
| QUANTITATIVE | 79 | 67 | 77 | 66 | 46 | 48 | 47 | 48 | 85 | 72 | 85 | 72 | 58 | 54 | 60 | 55 |
| NONVERBAL | 79 | 67 | 80 | 68 | 51 | 51 | 55 | 53 | 85 | 72 | 87 | 74 | 67 | 59 | 73 | 63 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A17

COMPARISON OF TEST SCORES OF MALES AND FEMALES WITHIN RACIAL/ETHNIC GROUPS, 1980
GRADE 7(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NOE) mean.)

| IOWA TESTS OF BASIC SKILLS | WHITE (N=2930)* | | | | BLACK (N=391) | | | | ASIAN (N=158) | | | | HISPANIC (N=112) | | | |
|----------------------------------|--------------------|-----|--------|-----|------------------|-----|--------|-----|------------------|-----|--------|-----|---------------------|-----|--------|-----|
| | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | |
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 66 | 59 | 69 | 60 | 31 | 40 | 36 | 42 | 74 | 64 | 73 | 63 | 51 | 51 | 50 | 50 |
| VOCABULARY | 64 | 58 | 63 | 57 | 35 | 42 | 35 | 42 | 62 | 56 | 61 | 56 | 50 | 50 | 45 | 47 |
| READING COMPREHENSION | 60 | 55 | 62 | 56 | 30 | 39 | 33 | 41 | 59 | 55 | 61 | 56 | 43 | 46 | 43 | 46 |
| SPELLING | 53 | 52 | 65 | 58 | 33 | 41 | 46 | 48 | 70 | 61 | 78 | 66 | 47 | 48 | 53 | 52 |
| CAPITALIZATION | 62 | 56 | 72 | 62 | 36 | 42 | 48 | 49 | 74 | 64 | 78 | 66 | 51 | 51 | 59 | 55 |
| PUNCTUATION | 59 | 55 | 71 | 62 | 32 | 40 | 42 | 46 | 73 | 63 | 79 | 67 | 49 | 49 | 57 | 54 |
| LANGUAGE USAGE | 58 | 54 | 69 | 60 | 33 | 41 | 41 | 45 | 55 | 53 | 66 | 59 | 47 | 48 | 53 | 52 |
| MAP READING | 72 | 62 | 68 | 60 | 41 | 45 | 37 | 43 | 82 | 69 | 74 | 64 | 60 | 55 | 50 | 50 |
| GRAPHS AND TABLES | 67 | 59 | 67 | 59 | 36 | 42 | 36 | 42 | 75 | 64 | 70 | 61 | 50 | 50 | 45 | 47 |
| REFERENCE MATERIALS | 62 | 56 | 69 | 60 | 34 | 41 | 42 | 46 | 75 | 64 | 75 | 64 | 51 | 51 | 52 | 51 |
| MATH/CONCEPTS | 70 | 61 | 67 | 59 | 35 | 42 | 35 | 42 | 84 | 71 | 79 | 67 | 55 | 53 | 51 | 51 |
| MATH PROBLEM SOLVING | 64 | 58 | 62 | 56 | 30 | 39 | 33 | 41 | 76 | 65 | 73 | 63 | 49 | 49 | 45 | 47 |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 70 | 61 | 75 | 64 | 42 | 46 | 45 | 47 | 71 | 62 | 70 | 61 | 50 | 50 | 48 | 49 |
| QUANTITATIVE | 76 | 65 | 76 | 65 | 42 | 46 | 46 | 48 | 88 | 75 | 85 | 72 | 58 | 54 | 56 | 53 |
| NONVERBAL | 76 | 65 | 79 | 67 | 51 | 51 | 52 | 51 | 86 | 73 | 87 | 74 | 64 | 58 | 69 | 60 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A18

COMPARISON OF TEST SCORES OF MALES AND FEMALES WITHIN RACIAL/ETHNIC GROUPS, 1980
GRADE 9(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | WHITE (N=3095)* (N=3323) | | | | BLACK (N=371) (N=368) | | | | ASIAN (N=165) (N=132) | | | | HISPANIC (N=107) (N=113) | | | |
|----------------------------------|-----------------------------|-----|--------|-----|--------------------------|-----|--------|-----|--------------------------|-----|--------|-----|-----------------------------|-----|--------|-----|
| | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | |
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 64 | 58 | 65 | 58 | 26 | 36 | 30 | 39 | 69 | 60 | 68 | 60 | 50 | 50 | 50 | 50 |
| VOCABULARY | 64 | 58 | 63 | 57 | 30 | 39 | 30 | 39 | 58 | 54 | 59 | 55 | 48 | 49 | 47 | 48 |
| READING COMPREHENSION | 58 | 54 | 59 | 55 | 25 | 36 | 28 | 38 | 57 | 54 | 58 | 54 | 48 | 49 | 42 | 46 |
| SPELLING | 50 | 50 | 63 | 57 | 27 | 37 | 43 | 46 | 66 | 59 | 75 | 64 | 45 | 47 | 54 | 52 |
| CAPITALIZATION | 55 | 53 | 66 | 59 | 28 | 38 | 40 | 45 | 67 | 59 | 73 | 63 | 48 | 49 | 56 | 53 |
| PUNCTUATION | 57 | 54 | 68 | 60 | 28 | 38 | 40 | 45 | 68 | 60 | 76 | 65 | 50 | 50 | 59 | 55 |
| LANGUAGE USAGE | 54 | 52 | 65 | 58 | 27 | 37 | 37 | 43 | 56 | 53 | 66 | 59 | 47 | 48 | 54 | 52 |
| MAP READING | 73 | 63 | 63 | 57 | 33 | 41 | 29 | 38 | 76 | 65 | 70 | 61 | 62 | 56 | 50 | 50 |
| GRAPHS AND TABLES | 64 | 58 | 59 | 55 | 31 | 40 | 31 | 40 | 67 | 59 | 60 | 55 | 50 | 50 | 44 | 47 |
| REFERENCE MATERIALS | 61 | 56 | 64 | 58 | 27 | 37 | 36 | 42 | 67 | 59 | 69 | 60 | 50 | 50 | 50 | 50 |
| MATH CONCEPTS | 61 | 56 | 56 | 53 | 27 | 37 | 27 | 37 | 74 | 64 | 68 | 60 | 50 | 50 | 46 | 48 |
| MATH PROBLEM SOLVING | 63 | 57 | 57 | 54 | 29 | 38 | 27 | 37 | 75 | 64 | 65 | 58 | 47 | 48 | 44 | 47 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 70 | 61 | 75 | 64 | 34 | 41 | 40 | 45 | 62 | 56 | 68 | 60 | 50 | 50 | 52 | 51 |
| QUANTITATIVE | 79 | 67 | 77 | 66 | 43 | 46 | 45 | 47 | 88 | 75 | 86 | 73 | 66 | 59 | 66 | 59 |
| NONVERBAL | 81 | 68 | 81 | 68 | 53 | 52 | 53 | 52 | 89 | 76 | 89 | 76 | 76 | 65 | 74 | 64 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A19

COMPARISON OF TEST SCORES OF MALES AND FEMALES WITHIN RACIAL/ETHNIC GROUPS, 1980
GRADE 11(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | WHITE | | | | BLACK | | | | ASIAN | | | | HISPANIC | | | |
|----------------------------------|-----------|-----|----------|-----|---------|-----|---------|-----|---------|-----|---------|-----|----------|-----|---------|-----|
| | (N=3347)* | | (N=3337) | | (N=314) | | (N=348) | | (N=126) | | (N=138) | | (N=92) | | (N=114) | |
| | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | | MALE | | FEMALE | |
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 69 | 60 | 66 | 59 | 27 | 37 | 29 | 38 | 75 | 64 | 71 | 62 | 46 | 48 | 46 | 48 |
| SOCIAL STUDIES | 63 | 57 | 54 | 52 | 24 | 35 | 22 | 34 | 65 | 58 | 53 | 52 | 41 | 45 | 34 | 41 |
| COMPOSITION (ENGLISH) | 58 | 54 | 71 | 62 | 24 | 35 | 37 | 43 | 66 | 59 | 73 | 63 | 40 | 45 | 50 | 50 |
| SCIENCE | 72 | 62 | 63 | 57 | 37 | 43 | 32 | 40 | 79 | 67 | 70 | 61 | 52 | 51 | 45 | 47 |
| READING | 63 | 57 | 63 | 57 | 27 | 37 | 29 | 38 | 67 | 59 | 63 | 57 | 44 | 47 | 44 | 47 |
| MATHEMATICS | 73 | 63 | 67 | 59 | 34 | 41 | 33 | 41 | 85 | 72 | 84 | 71 | 56 | 53 | 51 | 51 |
| LITERATURE | 59 | 55 | 63 | 57 | 28 | 38 | 31 | 40 | 62 | 56 | 62 | 56 | 40 | 45 | 47 | 48 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A20

1980 GRADE 5 STUDENTS TESTED IN MCPS IN MORE THAN ONE
TEST ADMINISTRATION - TOTAL COUNTY

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | 1980 Grade 5 (N=6069)* | | 1978 Grade 3 (N=6069). | |
|-------------------------------|---------------------------|-----|---------------------------|------|
| | PR | NCE | PR. | NCE* |
| COMPOSITE | 73 | 63 | 77 | 66 |
| VOCABULARY | 68 | 60 | 73 | 63 |
| READING COMPOSITION | 65 | 58 | 70 | 61 |
| SPELLING | 70 | 61 | 75 | 64 |
| CAPITALIZATION | 73 | 63 | 80 | 68 |
| PUNCTUATION | 71 | 62 | 76 | 65 |
| LANGUAGE USAGE | 70 | 61 | 71 | 62 |
| MAP READING | 71 | 62 | 73 | 63 |
| GRAPHS AND TABLES | 76 | 65 | 76 | 65 |
| REFERENCE MATERIALS | 70 | 61 | 72 | 62 |
| MATH CONCEPTS | 73 | 63 | 71 | 62 |
| MATH PROBLEM SOLVING | 70 | 61 | 75 | 64 |
| <hr/> | | | | |
| COGNITIVE ABILITIES TEST | | | | |
| VERBAL | 77 | 66 | 79 | 67 |
| QUANTITATIVE | 76 | 65 | 83 | 70 |
| NONVERBAL | 79 | 67 | 76 | 65 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A21

1980 GRADE 5 STUDENTS TESTED IN MCPS IN MORE THAN ONE
TEST ADMINISTRATION - BLACK

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | 1980 Grade 5 (N=567)* | | 1978 Grade 3 (N=567) | |
|-------------------------------------|--------------------------|-----|-------------------------|-----|
| | PR | NCE | PR | NCE |
| COMPOSITE | 43 | 46 | 50 | 50 |
| VOCABULARY | 41 | 45 | 47 | 48 |
| READING COMPOSITION | 38 | 44 | 44 | 47 |
| SPELLING | 52 | 51 | 62 | 56 |
| CAPITALIZATION | 51 | 51 | 62 | 56 |
| PUNCTUATION | 50 | 50 | 56 | 53 |
| LANGUAGE USAGE | 45 | 47 | 51 | 51 |
| MAP READING | 42 | 46 | 44 | 47 |
| GRAPHS AND TABLES | 47 | 48 | 52 | 51 |
| REFERENCE MATERIALS | 45 | 47 | 48 | 49 |
| MATH CONCEPTS | 44 | 47 | 45 | 47 |
| MATH PROBLEM SOLVING | 41 | 45 | 49 | 49 |
| <hr/> | | | | |
| <u>COGNITIVE ABILITIES TEST</u> | | | | |
| VERBAL | 53 | 52 | 55 | 53 |
| QUANTITATIVE | 50 | 50 | 57 | 54 |
| NONVERBAL | 56 | 53 | 51 | 51 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A22

1980 GRADE 5 STUDENTS TESTED IN MCPS IN MORE THAN ONE
TEST ADMINISTRATION - ASIAN

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | 1980 Grade 5 (N=239)* | | 1978 Grade 5 (N=239) | |
|-------------------------------|--------------------------|-----|-------------------------|-----|
| | PR | NCE | PR | NCE |
| COMPOSITE | 83 | 70 | 83 | 70 |
| VOCABULARY | 72 | 62 | 73 | 63 |
| READING COMPOSITION | 73 | 63 | 73 | 63 |
| SPELLING | 84 | 71 | 84 | 71 |
| CAPITALIZATION | 83 | 70 | 88 | 75 |
| PUNCTUATION | 83 | 70 | 86 | 73 |
| LANGUAGE USAGE | 72 | 62 | 70 | 61 |
| MAP READING | 82 | 69 | 76 | 65 |
| GRAPHS AND TABLES | 84 | 71 | 80 | 68 |
| REFERENCE MATERIALS | 81 | 68 | 79 | 67 |
| MATH CONCEPTS | 84 | 71 | 78 | 66 |
| MATH PROBLEM SOLVING | 82 | 69 | 84 | 71 |
| <hr/> | | | | |
| COGNITIVE ABILITIES TEST | | | | |
| VERBAL | 83 | 70 | 82 | 69 |
| QUANTITATIVE | 87 | 74 | 89 | 76 |
| NONVERBAL | 88 | 75 | 85 | 72 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A23

1980 GRADE 5 STUDENTS TESTED IN MCPS IN MORE THAN ONE
TEST ADMINISTRATION - HISPANIC

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | 1980 Grade 5 (N=125)* | | 1978 Grade 3 (N=125) | |
|-------------------------------|--------------------------|-----|-------------------------|-----|
| | PR | NCE | PR | NCE |
| COMPOSITE | 61 | 56 | 64 | 58 |
| VOCABULARY | 57 | 54 | 57 | 54 |
| READING COMPOSITION | 55 | 53 | 57 | 54 |
| SPELLING | 61 | 56 | 68 | 60 |
| CAPITALIZATION | 65 | 58 | 76 | 65 |
| PUNCTUATION | 63 | 57 | 71 | 62 |
| LANGUAGE USAGE | 60 | 55 | 61 | 56 |
| MAP READING | 61 | 56 | 63 | 57 |
| GRAPHS AND TABLES | 67 | 59 | 67 | 59 |
| REFERENCE MATERIALS | 59 | 55 | 64 | 56 |
| MATH CONCEPTS | 58 | 54 | 59 | 55 |
| MATH PROBLEM SOLVING | 55 | 53 | 60 | 59 |
| <hr/> | | | | |
| COGNITIVE ABILITIES TEST | | | | |
| VERBAL | 63 | 57 | 63 | 57 |
| QUANTITATIVE | 64 | 58 | 73 | 63 |
| NONVERBAL | 74 | 64 | 70 | 61 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A24

1980 GRADE 5 STUDENTS TESTED IN MCPS IN MORE THAN ONE
TEST ADMINISTRATION - WHITE

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean.)

| IOWA TESTS OF BASIC SKILLS | 1980 Grade 5 (N=5117)* | | 1978 Grade 3 (N=5117) | |
|-------------------------------|---------------------------|-----|--------------------------|-----|
| | PR | NCE | PR | NCE |
| COMPOSITE | 76 | 65 | 80 | 68 |
| VOCABULARY | 71 | 62 | 75 | 64 |
| READING COMPOSITION | 68 | 60 | 73 | 63 |
| SPELLING | 70 | 61 | 76 | 65 |
| CAPITALIZATION | 75 | 64 | 82 | 69 |
| PUNCTUATION | 73 | 63 | 78 | 66 |
| LANGUAGE USAGE | 73 | 63 | 73 | 63 |
| MAP READING | 73 | 63 | 76 | 65 |
| GRAPHS AND TABLES | 78 | 66 | 79 | 67 |
| REFERENCE MATERIALS | 72 | 62 | 74 | 64 |
| MATH CONCEPTS | 76 | 65 | 73 | 63 |
| MATH PROBLEM SOLVING | 73 | 63 | 77 | 66 |
| <hr/> | | | | |
| COGNITIVE ABILITIES TEST | | | | |
| VERBAL | 80 | 68 | 82 | 69 |
| QUANTITATIVE | 79 | 67 | 84 | 71 |
| NONVERBAL | 80 | 68 | 79 | 67 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A25

1980 GRADE 7 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--TOTAL COUNTY

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 7 (N=4994)* | | 1978 Gr. 5 (N=4994) | | 1976 Gr. 3 (N=4994) | | 1980 Gr. 7 (N=878) | | 1978 Gr. 5 (N=878) | | 1978 Gr. 5 (N=957) | | 1976 Gr. 3 (N=957) | |
|----------------------------------|-------------------------|-----|------------------------|-----|------------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 67 | 59 | 72 | 62 | 74 | 64 | 63 | 57 | 66 | 59 | 65 | 58 | 68 | 60 |
| VOCABULARY | 63 | 57 | 66 | 59 | 70 | 61 | 58 | 54 | 61 | 56 | 62 | 56 | 65 | 58 |
| READING COMPREHENSION | 59 | 55 | 64 | 58 | 67 | 59 | 56 | 53 | 60 | 55 | 60 | 55 | 61 | 56 |
| SPELLING | 60 | 55 | 66 | 59 | 72 | 62 | 56 | 53 | 61 | 56 | 60 | 55 | 66 | 59 |
| CAPITALIZATION | 68 | 60 | 71 | 62 | 76 | 65 | 62 | 56 | 61 | 56 | 65 | 58 | 71 | 62 |
| PUNCTUATION | 65 | 58 | 67 | 59 | 71 | 62 | 61 | 56 | 60 | 55 | 60 | 55 | 66 | 59 |
| LANGUAGE USAGE | 63 | 57 | 69 | 60 | 68 | 60 | 58 | 54 | 63 | 57 | 63 | 57 | 63 | 57 |
| MAP READING | 69 | 60 | 71 | 62 | 71 | 62 | 66 | 59 | 64 | 58 | 66 | 59 | 66 | 59 |
| GRAPHS/TABLES | 65 | 58 | 74 | 64 | 73 | 63 | 63 | 57 | 69 | 60 | 69 | 60 | 68 | 60 |
| REFERENCE MATERIALS | 65 | 58 | 69 | 60 | 67 | 59 | 62 | 56 | 63 | 57 | 62 | 56 | 61 | 56 |
| MATH CONCEPTS | 67 | 59 | 74 | 64 | 70 | 61 | 64 | 58 | 71 | 62 | 67 | 59 | 63 | 57 |
| MATH PROBLEM SOLVING | 63 | 57 | 68 | 60 | 73 | 63 | 58 | 54 | 63 | 57 | 62 | 56 | 68 | 60 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 72 | 62 | 77 | 66 | 76 | 65 | 67 | 59 | 70 | 61 | 72 | 62 | 71 | 62 |
| QUANTITATIVE | 76 | 65 | 77 | 66 | 82 | 69 | 71 | 62 | 72 | 62 | 70 | 61 | 76 | 65 |
| NONVERBAL | 78 | 66 | 79 | 67 | 76 | 65 | 75 | 64 | 74 | 64 | 74 | 64 | 70 | 61 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A27

1980 GRADE 7 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--HISPANIC

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 7 (N=108)* | | 1978 Gr. 5 (N=108) | | 1976 Gr. 3 (N=108) | | 1980 Gr. 7 (N=37) | | 1978 Gr. 5 (N=37) | | 1978 Gr. 5 (N=31) | | 1976 Gr. 3 (N=31) | |
|----------------------------------|------------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 58 | 54 | 60 | 55 | 60 | 55 | 44 | 47 | 41 | 45 | 53 | 52 | 60 | 55 |
| VOCABULARY | 55 | 53 | 55 | 53 | 56 | 53 | 37 | 43 | 33 | 41 | 45 | 47 | 52 | 51 |
| READING COMPREHENSION | 50 | 50 | 52 | 51 | 52 | 51 | 37 | 43 | 34 | 41 | 46 | 48 | 51 | 51 |
| SPELLING | 57 | 54 | 62 | 56 | 66 | 59 | 36 | 42 | 37 | 43 | 54 | 52 | 61 | 56 |
| CAPITALIZATION | 64 | 58 | 63 | 57 | 67 | 59 | 45 | 47 | 43 | 46 | 47 | 48 | 63 | 57 |
| PUNCTUATION | 60 | 55 | 63 | 57 | 67 | 59 | 48 | 49 | 44 | 47 | 60 | 55 | 63 | 57 |
| LANGUAGE USAGE | 57 | 54 | 59 | 55 | 57 | 54 | 46 | 48 | 42 | 46 | 56 | 53 | 58 | 54 |
| MAP READING | 59 | 55 | 61 | 56 | 61 | 56 | 54 | 52 | 43 | 46 | 53 | 52 | 60 | 55 |
| GRAPHS/TABLES | 55 | 53 | 60 | 55 | 64 | 58 | 44 | 47 | 45 | 47 | 55 | 53 | 59 | 55 |
| REFERENCE MATERIALS | 59 | 55 | 62 | 56 | 58 | 54 | 47 | 48 | 43 | 46 | 59 | 55 | 55 | 53 |
| MATH CONCEPTS | 58 | 54 | 63 | 57 | 56 | 53 | 50 | 50 | 51 | 51 | 54 | 52 | 49 | 49 |
| MATH PROBLEM SOLVING | 55 | 53 | 59 | 55 | 63 | 57 | 40 | 45 | 43 | 46 | 55 | 53 | 61 | 56 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 61 | 56 | 66 | 59 | 62 | 56 | 43 | 46 | 44 | 47 | 66 | 59 | 63 | 57 |
| QUANTITATIVE | 64 | 58 | 65 | 58 | 72 | 62 | 56 | 53 | 53 | 52 | 65 | 58 | 72 | 62 |
| NONVERBAL | 71 | 62 | 73 | 63 | 65 | 58 | 70 | 61 | 68 | 60 | 75 | 64 | 70 | 61 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A27

1980 GRADE 7 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--HISPANIC

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 7 (N=108)* | | 1978 Gr. 5 (N=108) | | 1976 Gr. 3 (N=108) | | 1980 Gr. 7 (N=37) | | 1978 Gr. 5 (N=37) | | 1978 Gr. 5 (N=31) | | 1976 Gr. 3 (N=31) | |
|----------------------------------|------------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 58 | 54 | 60 | 55 | 60 | 55 | 44 | 47 | 41 | 45 | 53 | 52 | 60 | 55 |
| VOCABULARY | 55 | 53 | 55 | 53 | 56 | 53 | 37 | 43 | 33 | 41 | 45 | 47 | 52 | 51 |
| READING COMPREHENSION | 50 | 50 | 52 | 51 | 52 | 51 | 37 | 43 | 34 | 41 | 46 | 48 | 51 | 51 |
| SPELLING | 57 | 54 | 62 | 56 | 66 | 59 | 36 | 42 | 37 | 43 | 54 | 52 | 61 | 56 |
| CAPITALIZATION | 64 | 58 | 63 | 57 | 67 | 59 | 45 | 47 | 43 | 46 | 47 | 48 | 63 | 57 |
| PUNCTUATION | 60 | 55 | 63 | 57 | 67 | 59 | 48 | 49 | 44 | 47 | 60 | 55 | 63 | 57 |
| LANGUAGE USAGE | 57 | 54 | 59 | 55 | 57 | 54 | 46 | 48 | 42 | 46 | 56 | 53 | 58 | 54 |
| MAP READING | 59 | 55 | 61 | 56 | 61 | 56 | 54 | 52 | 43 | 46 | 53 | 52 | 60 | 55 |
| GRAPHS/TABLES | 55 | 53 | 60 | 55 | 64 | 58 | 44 | 47 | 45 | 47 | 55 | 53 | 59 | 55 |
| REFERENCE MATERIALS | 59 | 55 | 62 | 56 | 58 | 54 | 47 | 48 | 43 | 46 | 59 | 55 | 55 | 53 |
| MATH CONCEPTS | 58 | 54 | 63 | 57 | 56 | 53 | 50 | 50 | 51 | 51 | 54 | 52 | 49 | 49 |
| MATH PROBLEM SOLVING | 55 | 53 | 59 | 55 | 63 | 57 | 40 | 45 | 43 | 46 | 55 | 53 | 61 | 56 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 61 | 56 | 66 | 59 | 62 | 56 | 43 | 46 | 44 | 47 | 66 | 59 | 63 | 57 |
| QUANTITATIVE | 64 | 58 | 65 | 58 | 72 | 62 | 56 | 53 | 53 | 52 | 65 | 58 | 72 | 62 |
| NONVERBAL | 71 | 62 | 73 | 63 | 65 | 58 | 70 | 61 | 68 | 60 | 75 | 64 | 70 | 61 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A28

1980 GRADE 7 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--BLACK

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 7 (N=447)* | | 1978 Gr. 5 (N=447) | | 1976 Gr. 3 (N=447) | | 1980 Gr. 7 (N=126) | | 1978 Gr. 5 (N=126) | | 1978 Gr. 5 (N=86) | | 1976 Gr. 3 (N=86) | |
|----------------------------------|------------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 37 | 43 | 41 | 45 | 45 | 47 | 31 | 40 | 34 | 41 | 31 | 40 | 37 | 43 |
| VOCABULARY | 37 | 43 | 38 | 44 | 45 | 47 | 33 | 41 | 37 | 43 | 31 | 40 | 40 | 45 |
| READING COMPREHENSION | 33 | 41 | 37 | 43 | 38 | 44 | 30 | 39 | 29 | 38 | 30 | 39 | 36 | 42 |
| SPELLING | 41 | 45 | 49 | 49 | 59 | 55 | 39 | 44 | 44 | 47 | 39 | 44 | 45 | 47 |
| CAPITALIZATION | 47 | 48 | 49 | 49 | 58 | 54 | 39 | 44 | 37 | 43 | 45 | 47 | 50 | 50 |
| PUNCTUATION | 40 | 45 | 44 | 47 | 50 | 50 | 37 | 43 | 37 | 43 | 35 | 42 | 43 | 46 |
| LANGUAGE USAGE | 39 | 44 | 43 | 46 | 46 | 48 | 34 | 41 | 37 | 43 | 39 | 44 | 43 | 46 |
| MAP READING | 42 | 46 | 42 | 46 | 42 | 46 | 37 | 43 | 37 | 43 | 36 | 42 | 37 | 43 |
| GRAPHS/TABLES | 37 | 43 | 45 | 47 | 47 | 48 | 34 | 41 | 39 | 44 | 42 | 46 | 39 | 44 |
| REFERENCE MATERIALS | 41 | 45 | 45 | 47 | 42 | 46 | 37 | 43 | 38 | 44 | 37 | 43 | 37 | 43 |
| MATH CONCEPTS | 37 | 43 | 43 | 46 | 42 | 46 | 36 | 42 | 39 | 44 | 37 | 43 | 34 | 41 |
| MATH PROBLEM SOLVING | 33 | 41 | 38 | 44 | 46 | 48 | 30 | 39 | 35 | 42 | 35 | 42 | 43 | 46 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 47 | 48 | 53 | 52 | 52 | 51 | 42 | 46 | 44 | 47 | 45 | 47 | 47 | 48 |
| QUANTITATIVE | 48 | 49 | 50 | 50 | 57 | 54 | 44 | 47 | 43 | 46 | 43 | 46 | 51 | 51 |
| NONVERBAL | 58 | 54 | 59 | 55 | 51 | 51 | 51 | 51 | 44 | 47 | 47 | 48 | 44 | 47 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A29

1980 GRADE 7 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--WHITE

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 7 (N=4255)* | | 1978 Gr. 5 (N=4255) | | 1976 Gr. 3 (N=4255) | | 1980 Gr. 7 (N=649) | | 1978 Gr. 5 (N=649) | | 1978 Gr. 5 (N=805) | | 1976 Gr. 3 (N=805) | |
|----------------------------------|-------------------------|-----|------------------------|-----|------------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 70 | 61 | 75 | 64 | 76 | 65 | 69 | 60 | 73 | 63 | 69 | 60 | 70 | 61 |
| VOCABULARY | 64 | 58 | 69 | 60 | 73 | 63 | 65 | 58 | 68 | 60 | 64 | 58 | 68 | 60 |
| READING COMPREHENSION | 62 | 56 | 67 | 59 | 70 | 61 | 63 | 57 | 69 | 60 | 63 | 57 | 63 | 57 |
| SPELLING | 61 | 56 | 68 | 60 | 73 | 63 | 59 | 55 | 64 | 58 | 61 | 56 | 68 | 60 |
| CAPITALIZATION | 69 | 60 | 73 | 63 | 77 | 66 | 65 | 58 | 66 | 59 | 67 | 59 | 72 | 62 |
| PUNCTUATION | 67 | 59 | 69 | 60 | 73 | 63 | 64 | 58 | 64 | 58 | 62 | 56 | 68 | 60 |
| LANGUAGE USAGE | 64 | 58 | 71 | 62 | 70 | 61 | 63 | 57 | 70 | 61 | 65 | 58 | 65 | 58 |
| MAP READING | 71 | 62 | 74 | 64 | 73 | 63 | 71 | 62 | 70 | 61 | 69 | 60 | 69 | 60 |
| GRAPHS/TABLES | 69 | 60 | 76 | 65 | 75 | 64 | 69 | 60 | 74 | 64 | 71 | 62 | 70 | 61 |
| REFERENCE MATERIALS | 67 | 59 | 71 | 62 | 70 | 61 | 66 | 59 | 68 | 60 | 63 | 57 | 63 | 57 |
| MATH CONCEPTS | 70 | 61 | 77 | 66 | 72 | 62 | 70 | 61 | 77 | 66 | 69 | 60 | 66 | 59 |
| MATH PROBLEM SOLVING | 65 | 58 | 71 | 62 | 75 | 64 | 63 | 57 | 69 | 60 | 63 | 57 | 70 | 61 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 74 | 64 | 80 | 68 | 79 | 67 | 73 | 63 | 77 | 66 | 74 | 64 | 73 | 63 |
| QUANTITATIVE | 78 | 66 | 79 | 67 | 84 | 71 | 75 | 64 | 76 | 65 | 73 | 63 | 77 | 66 |
| NONVERBAL | 79 | 67 | 82 | 69 | 78 | 66 | 78 | 66 | 79 | 67 | 76 | 65 | 72 | 62 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A30

1980 GRADE 9 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--TOTAL COUNTY.

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 9 (N=5346)* | | 1978 Gr. 7 (N=5346) | | 1976 Gr. 5 (N=5346) | | 1980 Gr. 9 (N=778) | | 1978 Gr. 7 (N=778) | | 1978 Gr. 7 (N=953) | | 1976 Gr. 5 (N=953) | |
|----------------------------------|-------------------------|-----|------------------------|-----|------------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 64 | 58 | 64 | 58 | 69 | 60 | 59 | 55 | 56 | 53 | 54 | 52 | 59 | 55 |
| VOCABULARY | 63 | 57 | 61 | 56 | 64 | 58 | 58 | 54 | 53 | 52 | 53 | 52 | 57 | 54 |
| READING COMPREHENSION | 57 | 54 | 56 | 53 | 61 | 56 | 53 | 52 | 50 | 50 | 50 | 50 | 53 | 52 |
| SPELLING | 56 | 53 | 57 | 54 | 63 | 57 | 52 | 51 | 52 | 51 | 49 | 49 | 54 | 52 |
| CAPITALIZATION | 62 | 56 | 63 | 57 | 64 | 58 | 55 | 53 | 54 | 52 | 53 | 52 | 56 | 53 |
| PUNCTUATION | 63 | 57 | 63 | 57 | 62 | 56 | 57 | 54 | 54 | 52 | 51 | 51 | 52 | 51 |
| LANGUAGE USAGE | 59 | 55 | 61 | 56 | 65 | 58 | 57 | 54 | 55 | 53 | 51 | 51 | 57 | 54 |
| MAP READING | 69 | 60 | 67 | 59 | 66 | 59 | 62 | 56 | 58 | 54 | 58 | 54 | 59 | 55 |
| GRAPHS/TABLES | 62 | 56 | 63 | 57 | 70 | 61 | 56 | 53 | 54 | 52 | 54 | 52 | 62 | 56 |
| REFERENCE MATERIALS | 63 | 57 | 62 | 56 | 64 | 58 | 57 | 54 | 53 | 52 | 51 | 51 | 56 | 53 |
| MATH CONCEPTS | 58 | 54 | 65 | 58 | 70 | 61 | 53 | 52 | 59 | 55 | 54 | 52 | 61 | 56 |
| MATH PROBLEM SOLVING | 59 | 55 | 60 | 55 | 65 | 58 | 54 | 52 | 53 | 52 | 50 | 50 | 57 | 54 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 73 | 63 | 70 | 61 | 74 | 64 | 64 | 58 | 61 | 56 | 62 | 56 | 66 | 59 |
| QUANTITATIVE | 79 | 67 | 74 | 64 | 76 | 65 | 72 | 62 | 65 | 58 | 64 | 58 | 69 | 60 |
| NONVERBAL | 82 | 69 | 76 | 65 | 77 | 66 | 76 | 65 | 70 | 61 | 69 | 60 | 70 | 61 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A31

1980 GRADE 9 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--ASIAN

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 9 (N=159)* | | 1978 Gr. 7 (N=159) | | 1976 Gr. 5 (N=159) | | 1980 Gr. 9 (N=44) | | 1978 Gr. 7 (N=44) | | 1978 Gr. 7 (N=15) | | 1976 Gr. 5 (N=15) | |
|----------------------------------|------------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 79 | 67 | 77 | 66 | 79 | 67 | 67 | 59 | 63 | 57 | 71 | 62 | 72 | 62 |
| VOCABULARY | 72 | 62 | 67 | 59 | 67 | 59 | 60 | 55 | 51 | 51 | 75 | 64 | 66 | 59 |
| READING COMPREHENSION | 70 | 61 | 66 | 59 | 68 | 60 | 55 | 53 | 46 | 48 | 57 | 54 | 66 | 59 |
| SPELLING | 80 | 68 | 81 | 68 | 79 | 67 | 73 | 63 | 68 | 60 | 79 | 67 | 77 | 66 |
| CAPITALIZATION | 79 | 67 | 79 | 67 | 76 | 65 | 72 | 62 | 64 | 58 | 67 | 59 | 55 | 53 |
| PUNCTUATION | 80 | 68 | 79 | 67 | 76 | 65 | 70 | 61 | 65 | 58 | 76 | 65 | 72 | 62 |
| LANGUAGE USAGE | 69 | 60 | 64 | 58 | 66 | 59 | 64 | 58 | 50 | 50 | 64 | 58 | 63 | 57 |
| MAP READING | 82 | 69 | 82 | 69 | 78 | 66 | 72 | 62 | 70 | 61 | 68 | 60 | 67 | 59 |
| GRAPHS/TABLES | 71 | 62 | 75 | 64 | 79 | 67 | 61 | 56 | 63 | 57 | 56 | 53 | 65 | 58 |
| REFERENCE MATERIALS | 69 | 67 | 76 | 65 | 76 | 65 | 66 | 59 | 61 | 56 | 63 | 57 | 63 | 57 |
| MATH CONCEPTS | 77 | 66 | 83 | 70 | 84 | 71 | 72 | 62 | 77 | 66 | 70 | 61 | 66 | 59 |
| MATH PROBLEM SOLVING | 77 | 66 | 76 | 65 | 79 | 67 | 66 | 59 | 66 | 59 | 60 | 55 | 64 | 58 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 81 | 68 | 77 | 66 | 78 | 66 | 70 | 61 | 64 | 58 | 69 | 60 | 68 | 60 |
| QUANTITATIVE | 91 | 79 | 88 | 75 | 87 | 74 | 88 | 75 | 82 | 69 | 79 | 67 | 74 | 64 |
| NONVERBAL | 92 | 80 | 88 | 75 | 86 | 73 | 90 | 77 | 82 | 69 | 79 | 67 | 82 | 69 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A32

1980 GRADE 9 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--BLACK

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF | 1980 Gr. 9 (N=424)* | | 1978 Gr. 7 (N=424) | | 1976 Gr. 5 (N=424) | | 1980 Gr. 9 (N=113) | | 1978 Gr. 7 (N=113) | | 1978 Gr. 7 (N=98) | | 1976 Gr. 5 (N=98) | |
|-----------------------------|------------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| BASIC SKILLS | | | | | | | | | | | | | | |
| COMPOSITE | 32 | 40 | 30 | 39 | 32 | 40 | 30 | 39 | 24 | 35 | 24 | 35 | 27 | 37 |
| VOCABULARY | 33 | 41 | 32 | 40 | 34 | 41 | 30 | 39 | 24 | 35 | 27 | 37 | 29 | 38 |
| READING COMPREHENSION | 30 | 39 | 27 | 37 | 29 | 38 | 27 | 37 | 22 | 34 | 26 | 36 | 26 | 36 |
| SPELLING | 37 | 43 | 37 | 43 | 41 | 45 | 32 | 40 | 30 | 39 | 29 | 38 | 32 | 40 |
| CAPITALIZATION | 39 | 44 | 40 | 45 | 38 | 44 | 30 | 39 | 29 | 38 | 31 | 40 | 30 | 39 |
| PUNCTUATION | 37 | 43 | 37 | 43 | 36 | 42 | 31 | 40 | 28 | 38 | 27 | 37 | 27 | 37 |
| LANGUAGE USAGE | 34 | 41 | 34 | 41 | 37 | 43 | 33 | 41 | 30 | 39 | 28 | 38 | 30 | 39 |
| MAP READING | 37 | 43 | 38 | 44 | 37 | 43 | 30 | 39 | 27 | 37 | 29 | 38 | 28 | 38 |
| GRAPHS/TABLES | 34 | 41 | 34 | 41 | 39 | 44 | 31 | 40 | 24 | 35 | 30 | 39 | 36 | 42 |
| REFERENCE MATERIALS | 35 | 42 | 37 | 43 | 37 | 43 | 30 | 39 | 27 | 37 | 28 | 38 | 31 | 40 |
| MATH CONCEPTS | 30 | 39 | 32 | 40 | 35 | 42 | 26 | 36 | 27 | 37 | 26 | 36 | 27 | 37 |
| MATH PROBLEM SOLVING | 31 | 40 | 30 | 39 | 35 | 42 | 29 | 38 | 27 | 37 | 24 | 35 | 30 | 39 |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 43 | 46 | 42 | 46 | 46 | 48 | 33 | 41 | 32 | 40 | 33 | 41 | 38 | 44 |
| QUANTITATIVE | 49 | 49 | 44 | 47 | 48 | 49 | 42 | 46 | 32 | 40 | 36 | 42 | 37 | 43 |
| NONVERBAL | 59 | 55 | 53 | 52 | 52 | 51 | 52 | 51 | 43 | 46 | 42 | 46 | 44 | 47 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A33

1980 GRADE 9 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--HISPANIC

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 9 (N=109)* | | 1978 Gr. 7 (N=109) | | 1976 Gr. 5 (N=109) | | 1980 Gr. 9 (N=38) | | 1978 Gr. 7 (N=38) | | 1978 Gr. 7 (N=26) | | 1976 Gr. 5 (N=26) | |
|----------------------------------|------------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 59 | 55 | 56 | 53 | 58 | 54 | 46 | 48 | 42 | 46 | 52 | 51 | 50 | 50 |
| VOCABULARY | 56 | 53 | 50 | 50 | 52 | 51 | 38 | 44 | 38 | 44 | 52 | 51 | 54 | 52 |
| READING COMPREHENSION | 50 | 50 | 48 | 49 | 48 | 49 | 45 | 47 | 37 | 43 | 50 | 50 | 46 | 48 |
| SPELLING | 56 | 53 | 54 | 52 | 58 | 54 | 47 | 48 | 39 | 44 | 56 | 53 | 55 | 53 |
| CAPITALIZATION | 60 | 55 | 63 | 57 | 59 | 55 | 52 | 51 | 49 | 49 | 45 | 47 | 45 | 47 |
| PUNCTUATION | 63 | 57 | 59 | 55 | 59 | 55 | 51 | 51 | 44 | 47 | 52 | 51 | 37 | 43 |
| LANGUAGE USAGE | 55 | 53 | 54 | 52 | 51 | 51 | 50 | 50 | 45 | 47 | 48 | 49 | 50 | 50 |
| MAP READING | 64 | 58 | 63 | 57 | 60 | 55 | 51 | 51 | 48 | 49 | 58 | 54 | 53 | 52 |
| GRAPHS/TABLES | 54 | 52 | 50 | 50 | 60 | 55 | 42 | 46 | 38 | 44 | 46 | 48 | 52 | 51 |
| REFERENCE MATERIALS | 57 | 54 | 58 | 54 | 56 | 53 | 47 | 48 | 42 | 46 | 50 | 50 | 47 | 48 |
| MATH CONCEPTS | 53 | 52 | 60 | 55 | 62 | 56 | 42 | 46 | 48 | 49 | 49 | 49 | 54 | 52 |
| MATH PROBLEM SOLVING | 50 | 50 | 50 | 50 | 58 | 54 | 42 | 46 | 40 | 45 | 46 | 48 | 49 | 49 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 64 | 58 | 60 | 55 | 62 | 56 | 45 | 47 | 39 | 44 | 58 | 54 | 63 | 57 |
| QUANTITATIVE | 75 | 64 | 67 | 59 | 68 | 60 | 60 | 55 | 54 | 52 | 60 | 55 | 63 | 57 |
| NONVERBAL | 83 | 70 | 73 | 63 | 75 | 64 | 70 | 61 | 60 | 55 | 65 | 58 | 68 | 60 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A34

1980 GRADE 9 STUDENTS TESTED IN MCPS IN MORE THAN
ONE TEST ADMINISTRATION--WHITE

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 9 (N=4645)* | | 1978 Gr. 7 (N=4645) | | 1976 Gr. 5 (N=4645) | | 1980 Gr. 9 (N=581) | | 1978 Gr. 7 (N=581) | | 1978 Gr. 7 (N=808) | | 1976 Gr. 5 (N=808) | |
|----------------------------------|-------------------------|-----|------------------------|-----|------------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|-----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 67 | 59 | 67 | 59 | 71 | 62 | 64 | 58 | 63 | 57 | 58 | 54 | 63 | 57 |
| VOCABULARY | 64 | 58 | 63 | 57 | 67 | 59 | 64 | 58 | 62 | 56 | 57 | 54 | 61 | 56 |
| READING COMPREHENSION | 60 | 55 | 59 | 55 | 63 | 57 | 59 | 55 | 59 | 55 | 53 | 52 | 57 | 54 |
| SPELLING | 58 | 54 | 58 | 54 | 64 | 58 | 55 | 53 | 57 | 54 | 50 | 50 | 57 | 54 |
| CAPITALIZATION | 63 | 57 | 65 | 58 | 66 | 59 | 60 | 55 | 59 | 55 | 56 | 53 | 60 | 55 |
| PUNCTUATION | 64 | 58 | 64 | 58 | 63 | 57 | 62 | 56 | 60 | 55 | 54 | 52 | 56 | 53 |
| LANGUAGE USAGE | 61 | 56 | 63 | 57 | 68 | 60 | 61 | 56 | 62 | 56 | 54 | 52 | 61 | 56 |
| MAP READING | 71 | 62 | 70 | 61 | 69 | 60 | 68 | 60 | 64 | 58 | 62 | 56 | 63 | 57 |
| GRAPHS/TABLES | 63 | 57 | 65 | 58 | 72 | 62 | 63 | 57 | 62 | 56 | 57 | 54 | 65 | 58 |
| REFERENCE MATERIALS | 64 | 58 | 63 | 57 | 67 | 59 | 63 | 57 | 59 | 55 | 54 | 52 | 60 | 55 |
| MATH CONCEPTS | 60 | 55 | 68 | 60 | 73 | 63 | 58 | 54 | 64 | 58 | 58 | 54 | 66 | 59 |
| MATH PROBLEM SOLVING | 62 | 56 | 62 | 56 | 68 | 60 | 60 | 55 | 59 | 55 | 53 | 52 | 61 | 56 |
| <hr/> | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | |
| VERBAL | 75 | 64 | 72 | 62 | 65 | 65 | 71 | 62 | 68 | 60 | 64 | 58 | 70 | 61 |
| QUANTITATIVE | 80 | 68 | 76 | 65 | 79 | 67 | 76 | 65 | 70 | 61 | 67 | 59 | 72 | 62 |
| NONVERBAL | 83 | 70 | 78 | 66 | 79 | 67 | 80 | 68 | 75 | 64 | 71 | 62 | 73 | 63 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A35

STUDENTS TESTED IN MCPS IN ONE YEAR ONLY--TOTAL COUNTY

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 5 (N=1353)* | | 1978 Gr. 3 (N=1509) | | 1980 Gr. 7 (N=1023) | | 1978 Gr. 5 (N=459) | | 1976 Gr. 3 (N=1356) | | 1980 Gr. 9 (N=1112) | | 1978 Gr. 7 (N=370) | | 1976 Gr. 5 (N=1427) | |
|----------------------------------|-------------------------|-----|------------------------|-----|------------------------|-----|-----------------------|-----|------------------------|-----|------------------------|-----|-----------------------|-----|------------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 64 | 58 | 65 | 58 | 54 | 52 | 54 | 52 | 64 | 58 | 50 | 50 | 42 | 46 | 61 | 56 |
| VOCABULARY | 62 | 56 | 62 | 56 | 52 | 51 | 53 | 52 | 62 | 56 | 51 | 51 | 43 | 46 | 59 | 55 |
| READING COMPREHENSION | 57 | 54 | 60 | 55 | 49 | 49 | 50 | 50 | 59 | 55 | 45 | 47 | 39 | 44 | 54 | 52 |
| SPELLING | 64 | 58 | 66 | 59 | 51 | 51 | 51 | 51 | 64 | 58 | 48 | 49 | 40 | 45 | 56 | 53 |
| CAPITALIZATION | 63 | 57 | 70 | 61 | 52 | 51 | 50 | 50 | 68 | 60 | 47 | 48 | 39 | 44 | 56 | 53 |
| PUNCTUATION | 62 | 56 | 67 | 59 | 53 | 52 | 51 | 51 | 63 | 57 | 50 | 50 | 42 | 46 | 54 | 52 |
| LANGUAGE USAGE | 62 | 56 | 61 | 56 | 53 | 52 | 56 | 53 | 60 | 55 | 49 | 49 | 43 | 46 | 59 | 55 |
| MAP READING | 63 | 57 | 63 | 57 | 58 | 54 | 58 | 54 | 64 | 58 | 48 | 49 | 46 | 48 | 61 | 56 |
| GRAPHS/TABLES | 68 | 60 | 67 | 59 | 54 | 52 | 60 | 55 | 65 | 58 | 49 | 49 | 45 | 47 | 63 | 57 |
| REFERENCE MATERIALS | 63 | 57 | 61 | 56 | 51 | 51 | 53 | 52 | 59 | 55 | 48 | 49 | 41 | 45 | 58 | 54 |
| MATH CONCEPTS | 67 | 59 | 60 | 55 | 57 | 54 | 59 | 55 | 61 | 56 | 47 | 48 | 46 | 48 | 63 | 57 |
| MATH PROBLEM SOLVING | 63 | 57 | 64 | 58 | 52 | 51 | 55 | 53 | 64 | 58 | 47 | 48 | 41 | 45 | 59 | 55 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 68 | 60 | 67 | 59 | 56 | 53 | 61 | 56 | 68 | 60 | 54 | 52 | 44 | 47 | 67 | 59 |
| QUANTITATIVE | 68 | 60 | 72 | 62 | 62 | 56 | 61 | 56 | 75 | 64 | 63 | 57 | 50 | 50 | 70 | 61 |
| NONVERBAL | 72 | 62 | 69 | 60 | 65 | 58 | 67 | 59 | 70 | 61 | 67 | 59 | 56 | 53 | 71 | 62 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A36

STUDENTS TESTED IN MCPS IN ONE YEAR ONLY--ASIAN

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 5 (N=126)* | | 1978 Gr. 3 (N=50) | | 1980 Gr. 7 (N=89) | | 1978 Gr. 5 (N=14) | | 1976 Gr. 3 (N=30) | | 1980 Gr. 9 (N=81) | | 1978 Gr. 7 (N=18) | | 1976 Gr. 5 (N=36) | |
|----------------------------------|------------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 67 | 59 | 79 | 67 | 63 | 57 | 56 | 53 | 76 | 65 | 45 | 47 | 45 | 47 | 76 | 65 |
| VOCABULARY | 53 | 52 | 66 | 59 | 43 | 46 | 40 | 45 | 63 | 57 | 30 | 39 | 34 | 41 | 63 | 57 |
| READING COMPREHENSION | 53 | 52 | 64 | 58 | 44 | 47 | 36 | 42 | 70 | 61 | 36 | 42 | 38 | 44 | 67 | 59 |
| SPELLING | 73 | 63 | 82 | 69 | 66 | 59 | 58 | 54 | 79 | 67 | 50 | 50 | 39 | 44 | 80 | 68 |
| CAPITALIZATION | 70 | 61 | 86 | 73 | 66 | 59 | 56 | 53 | 82 | 69 | 51 | 51 | 43 | 46 | 74 | 64 |
| PUNCTUATION | 71 | 62 | 84 | 71 | 69 | 60 | 55 | 53 | 78 | 66 | 56 | 53 | 46 | 48 | 79 | 67 |
| LANGUAGE USAGE | 54 | 52 | 70 | 61 | 52 | 51 | 45 | 47 | 64 | 58 | 44 | 47 | 39 | 44 | 64 | 58 |
| MAP READING | 70 | 61 | 73 | 63 | 72 | 62 | 67 | 59 | 69 | 60 | 56 | 53 | 52 | 51 | 76 | 65 |
| GRAPHS/TABLES | 74 | 64 | 80 | 68 | 66 | 59 | 64 | 58 | 74 | 64 | 50 | 50 | 52 | 51 | 80 | 68 |
| REFERENCE MATERIALS | 67 | 59 | 78 | 66 | 66 | 59 | 59 | 55 | 79 | 67 | 46 | 48 | 49 | 49 | 76 | 65 |
| MATH CONCEPTS | 75 | 64 | 82 | 69 | 78 | 66 | 75 | 64 | 78 | 66 | 60 | 55 | 63 | 57 | 82 | 69 |
| MATH PROBLEM SOLVING | 76 | 65 | 83 | 70 | 73 | 63 | 67 | 59 | 82 | 69 | 61 | 56 | 54 | 52 | 75 | 64 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 62 | 56 | 74 | 64 | 51 | 51 | 35 | 42 | 79 | 67 | 30 | 39 | 38 | 44 | 72 | 62 |
| QUANTITATIVE | 82 | 69 | 89 | 76 | 82 | 69 | 65 | 58 | 92 | 80 | 79 | 67 | 70 | 61 | 89 | 76 |
| NONVERBAL | 83 | 70 | 87 | 74 | 83 | 70 | 73 | 63 | 83 | 70 | 81 | 68 | 73 | 63 | 88 | 75 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A37

STUDENTS TESTED IN MCPS IN ONE YEAR ONLY--BLACK.

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 5 (N=231)* | | 1978 Gr. 3 (N=178) | | 1980 Gr. 7 (N=166) | | 1978 Gr. 5 (N=71) | | 1976 Gr. 3 (N=136) | | 1980 Gr. 9 (N=167) | | 1978 Gr. 7 (N=56) | | 1976 Gr. 5 (N=133) | |
|----------------------------------|------------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|-----------------------|-----|-----------------------|-----|----------------------|-----|-----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 32 | 40 | 41 | 45 | 29 | 38 | 20 | 32 | 27 | 37 | 20 | 32 | 14 | 27 | 29 | 38 |
| VOCABULARY | 34 | 41 | 41 | 45 | 33 | 41 | 24 | 35 | 28 | 38 | 25 | 36 | 20 | 32 | 34 | 41 |
| READING COMPREHENSION | 29 | 38 | 40 | 45 | 28 | 38 | 21 | 33 | 25 | 36 | 20 | 32 | 18 | 31 | 30 | 39 |
| SPELLING | 49 | 49 | 56 | 53 | 37 | 43 | 27 | 37 | 43 | 46 | 29 | 38 | 24 | 35 | 37 | 43 |
| CAPITALIZATION | 37 | 43 | 55 | 53 | 33 | 41 | 21 | 33 | 38 | 44 | 25 | 36 | 18 | 31 | 31 | 40 |
| PUNCTUATION | 40 | 45 | 50 | 50 | 30 | 39 | 24 | 35 | 36 | 42 | 27 | 37 | 24 | 35 | 30 | 39 |
| LANGUAGE USAGE | 39 | 44 | 42 | 46 | 34 | 41 | 27 | 37 | 34 | 41 | 26 | 36 | 24 | 35 | 37 | 43 |
| MAP READING | 34 | 41 | 42 | 46 | 34 | 41 | 28 | 38 | 28 | 38 | 19 | 32 | 22 | 34 | 34 | 41 |
| GRAPHS/TABLES | 41 | 45 | 43 | 46 | 32 | 40 | 34 | 41 | 37 | 43 | 25 | 36 | 18 | 31 | 36 | 42 |
| REFERENCE MATERIALS | 36 | 42 | 43 | 46 | 30 | 39 | 26 | 36 | 31 | 40 | 24 | 35 | 19 | 32 | 30 | 39 |
| MATH CONCEPTS | 33 | 41 | 37 | 43 | 30 | 39 | 24 | 35 | 27 | 37 | 23 | 34 | 18 | 31 | 27 | 37 |
| MATH PROBLEM SOLVING | 33 | 41 | 39 | 44 | 30 | 39 | 27 | 37 | 32 | 40 | 22 | 34 | 15 | 28 | 31 | 40 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 42 | 46 | 46 | 48 | 37 | 43 | 30 | 39 | 37 | 43 | 27 | 37 | 19 | 32 | 41 | 45 |
| QUANTITATIVE | 39 | 44 | 46 | 48 | 37 | 43 | 29 | 38 | 46 | 48 | 34 | 41 | 20 | 32 | 37 | 43 |
| NONVERBAL | 46 | 48 | 47 | 48 | 39 | 44 | 40 | 45 | 40 | 45 | 38 | 44 | 24 | 35 | 42 | 46 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A38

STUDENTS TESTED IN MCPS IN ONE YEAR ONLY--HISPANIC

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 5 (N=71)* | | 1978 Gr. 3 (N=56) | | 1980 Gr. 7 (N=71) | | 1978 Gr. 5 (N=18) | | 1976 Gr. 3 (N=37) | | 1980 Gr. 9 (N=59) | | 1978 Gr. 7 (N=15) | | 1976 Gr. 5 (N=35) | |
|----------------------------------|-----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 39 | 44 | 59 | 55 | 42 | 46 | 31 | 40 | 47 | 48 | 41 | 45 | 58 | 54 | 48 | 49 |
| VOCABULARY | 39 | 44 | 53 | 52 | 43 | 46 | 34 | 41 | 44 | 47 | 41 | 45 | 55 | 53 | 48 | 49 |
| READING COMPREHENSION | 33 | 41 | 50 | 50 | 37 | 43 | 27 | 37 | 41 | 45 | 39 | 44 | 47 | 48 | 43 | 46 |
| SPELLING | 46 | 48 | 61 | 56 | 47 | 48 | 35 | 42 | 52 | 51 | 40 | 45 | 50 | 50 | 45 | 47 |
| CAPITALIZATION | 42 | 46 | 63 | 57 | 48 | 49 | 32 | 40 | 62 | 56 | 39 | 44 | 52 | 51 | 42 | 46 |
| PUNCTUATION | 49 | 49 | 68 | 60 | 44 | 47 | 34 | 41 | 51 | 51 | 44 | 47 | 58 | 54 | 50 | 50 |
| LANGUAGE USAGE | 41 | 45 | 55 | 53 | 43 | 46 | 35 | 42 | 47 | 48 | 43 | 46 | 40 | 45 | 51 | 51 |
| MAP READING | 43 | 46 | 57 | 54 | 49 | 49 | 35 | 42 | 49 | 49 | 49 | 49 | 58 | 54 | 51 | 51 |
| GRAPHS/TABLES | 50 | 50 | 65 | 58 | 38 | 44 | 45 | 47 | 53 | 52 | 38 | 44 | 54 | 52 | 52 | 51 |
| REFERENCE MATERIALS | 45 | 47 | 60 | 55 | 44 | 47 | 28 | 38 | 45 | 47 | 42 | 46 | 52 | 51 | 50 | 50 |
| MATH CONCEPTS | 44 | 47 | 55 | 53 | 49 | 49 | 35 | 42 | 48 | 49 | 45 | 47 | 65 | 58 | 50 | 50 |
| MATH PROBLEM SOLVING | 48 | 49 | 58 | 54 | 37 | 43 | 34 | 41 | 43 | 46 | 40 | 45 | 56 | 53 | 54 | 52 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 40 | 45 | 61 | 56 | 36 | 42 | 28 | 38 | 43 | 46 | 34 | 41 | 41 | 45 | 49 | 49 |
| QUANTATIVE | 50 | 50 | 68 | 60 | 46 | 48 | 40 | 45 | 39 | 55 | 59 | 55 | 72 | 62 | 62 | 56 |
| NONVERBAL | 60 | 55 | 67 | 59 | 57 | 54 | 60 | 55 | 61 | 56 | 65 | 58 | 69 | 60 | 63 | 57 |

*This is the number of students with Composite scores. The number with any subtest score may be slightly higher.

TABLE A39

STUDENTS TESTED IN MCPS IN ONE YEAR ONLY--WHITE

(Scores reported are Percentile Ranks (PR) for each
Normal Curve Equivalent (NCE) mean)

| IOWA TESTS OF BASIC SKILLS | 1980 Gr. 5 (N=923)* | | 1978 Gr. 3 (N=1223) | | 1980 Gr. 7 (N=696) | | 1978 Gr. 5 (N=354) | | 1976 Gr. 3 (N=1148) | | 1980 Gr. 9 (N=804) | | 1978 Gr. 7 (N=281) | | 1976 Gr. 5 (N=1219) | |
|----------------------------------|------------------------|-----|------------------------|-----|-----------------------|-----|-----------------------|-----|------------------------|-----|-----------------------|-----|-----------------------|-----|------------------------|-----|
| | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE | PR | NCE |
| COMPOSITE | 73 | 63 | 68 | 60 | 61 | 56 | 63 | 57 | 70 | 61 | 58 | 54 | 48 | 49 | 63 | 57 |
| VOCABULARY | 70 | 61 | 65 | 58 | 59 | 55 | 62 | 56 | 66 | 59 | 60 | 55 | 48 | 49 | 62 | 56 |
| READING COMPREHENSION | 66 | 59 | 63 | 57 | 56 | 53 | 57 | 54 | 63 | 57 | 52 | 51 | 44 | 47 | 57 | 54 |
| SPELLING | 68 | 60 | 67 | 59 | 53 | 52 | 57 | 54 | 67 | 59 | 52 | 51 | 43 | 46 | 58 | 54 |
| CAPITALIZATION | 69 | 60 | 72 | 62 | 56 | 53 | 57 | 54 | 71 | 62 | 51 | 51 | 43 | 46 | 59 | 55 |
| PUNCTUATION | 67 | 59 | 68 | 60 | 57 | 54 | 58 | 54 | 66 | 59 | 56 | 53 | 45 | 47 | 56 | 53 |
| LANGUAGE USAGE | 70 | 61 | 63 | 57 | 59 | 55 | 63 | 57 | 63 | 57 | 55 | 53 | 48 | 49 | 62 | 56 |
| MAP READING | 71 | 62 | 66 | 59 | 63 | 57 | 64 | 58 | 70 | 61 | 53 | 52 | 50 | 50 | 63 | 57 |
| GRAPHS/TABLES | 75 | 64 | 70 | 61 | 61 | 56 | 66 | 59 | 68 | 60 | 54 | 52 | 50 | 50 | 66 | 59 |
| REFERENCE MATERIALS | 70 | 61 | 63 | 57 | 56 | 53 | 60 | 55 | 63 | 57 | 53 | 52 | 45 | 47 | 60 | 55 |
| MATH CONCEPTS | 75 | 64 | 63 | 57 | 62 | 56 | 66 | 59 | 64 | 58 | 51 | 51 | 50 | 50 | 67 | 59 |
| MATH PROBLEM SOLVING | 69 | 60 | 67 | 59 | 56 | 53 | 62 | 56 | 68 | 60 | 51 | 51 | 46 | 48 | 62 | 56 |
| <hr/> | | | | | | | | | | | | | | | | |
| COGNITIVE ABILITIES TEST | | | | | | | | | | | | | | | | |
| VERBAL | 76 | 65 | 70 | 61 | 63 | 57 | 70 | 61 | 71 | 62 | 63 | 57 | 50 | 50 | 70 | 61 |
| QUANTATIVE | 73 | 63 | 75 | 64 | 65 | 58 | 68 | 60 | 78 | 66 | 68 | 60 | 55 | 53 | 72 | 62 |
| NONVERBAL | 76 | 65 | 70 | 61 | 70 | 61 | 72 | 62 | 73 | 63 | 70 | 61 | 62 | 56 | 73 | 63 |

*This is the number of students with composite scores. The number with any subtest score may be slightly higher.

APPENDIX B
TECHNICAL TESTING TERMS

APPENDIX B - TECHNICAL TESTING TERMS

The following terms are defined, their uses are stated, and precautions about their interpretation are provided. The terms are listed in alphabetical order.

CRITERION-REFERENCED TEST (CRT)

Definition

A test based on specific learning objectives (or teaching objectives), usually within a narrow range of subject matter or skills. The tests are designed to measure the knowledge or skills the student has attained. The Maryland Functional Reading Test (MFRT) is an example of a CRT.

Use

CRTs provide information about the extent to which the student has attained the learning objective(s).

Precaution(s)

1. CRTs are often designed so a student can answer all or almost all of the questions correctly or incorrectly depending on the extent to which the student has attained the skills being measured. They are not designed to yield information about different levels of achievement and, therefore, cannot usually be used to rank students on specific skills.
2. To be useful measures of specific skills, CRTs must have a sufficient number of questions measuring each particular skill included on the test. Although what is "sufficient" is not a fixed number, there should, in most cases, be at least five questions which measure a skill. A test purporting to be a CRT which has fewer than five questions per skill should be viewed with skepticism.

GRADE EQUIVALENT SCORES (GE)

Definition

The grade equivalent of a given raw score on any test estimates the grade level at which the typical pupil achieves this raw score. The digit(s) to the left of the decimal point represent the grade; the

digit to the right of the decimal point represents the month within the grade according to the following table:

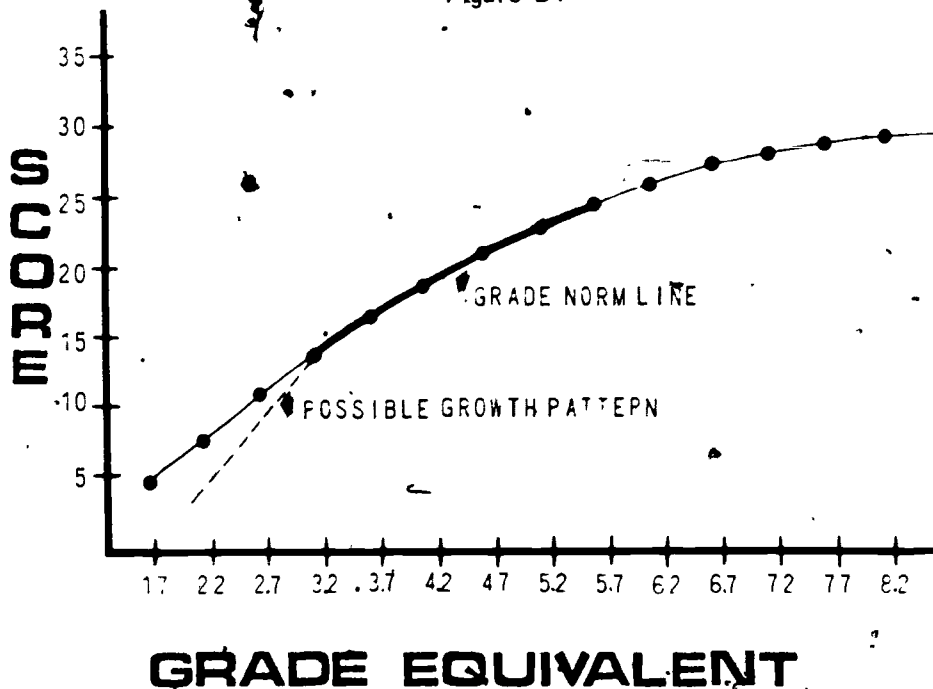
| Number | Month |
|--------|-------------|
| 0 | September |
| 1 | October |
| 2 | November |
| 3 | December |
| 4 | January |
| 5 | February |
| 6 | March |
| 7 | April |
| 8 | May |
| 9 | June-August |

An example of how a test publisher might derive grade equivalents can be useful in understanding GE. The example presented below represents the best methodology currently in use. Many tests are normed with fewer samples.

If the publisher is norming a fourth grade test, he will test a representative sample in Grades 3, 4, and 5. In each grade, the sample, or two comparable samples, will be tested in the fall (November) and the spring (April). Thus, the grade levels being tested as 3.2, 3.7, 4.2, 4.7, 5.2, and 5.7. (Often publishers test only once a year.)

The average raw test score for the students in each group is computed and plotted on a graph similar to the one below. The mean scores are indicated by "." on the graph. All other grade-and-month values are estimated by interpolation between the means and extrapolation beyond the means. The GEs beyond the grade range of students in the norming sample should be regarded as no better than rough estimates.

Figure B1



Use

GEs provide a familiar referent for test scores.

Precautions

1. The grade equivalent score does not indicate the grade level of work that a student can perform. It simply estimates the grade level of the typical student in the norming sample achieving a given raw score. For example, suppose a fourth grade student has a score with a grade equivalent of 5.4 on a fourth grade test. This does not mean that a fourth grade student can do work which is done in January in the fifth grade. It simply estimates that this student did as well on a fourth grade test as the typical student in January of the fifth grade. However, remember that if the norming sample for the fourth grade test did not include any fifth grade students, this estimate is very tentative.
2. Grade equivalent scores should not be added and subtracted because they are not an equal distance apart at all points. They are developed under an assumption that learning occurs equally during the school year. In fact, students tend to learn more at different times in the year. From a strict statistical point of view, this lack of equal score intervals means that mean GE scores should not be computed. However, if the GE scores are converted to Normal Curve Equivalent scores which do have this equal interval quality, the mean score computed from the converted scores is generally very close to that computed from the GEs, especially if the grade equivalents represent a wide range of possible scores.
3. The attempt to build a scale based on the assumption of equal learning cited in Number 2 above results in differential GE gains for raw score changes. What occurs is that a one raw score point change may cause a one-month change in GE at one place in the norm table and a five-month gain elsewhere. The largest changes in GE generally happen in the extremes of score distribution.

An example of the unequal GE differences between raw scores is shown below. These scores are taken from the ITBS seventh grade spelling test.

| Grade | Test | Raw Score | Grade Equivalent | Difference in Grade Equiv. |
|-------|----------|-----------|------------------|----------------------------|
| 7 | Spelling | 7 | 3.5 | |
| 7 | | 8 | 4.0 | .5 |
| 7 | | 9 | 4.4 | .4 |
| 7 | Spelling | 25 | 8.4 | |
| 7 | | 26 | 8.5 | .1 |
| 7 | | 27 | 8.7 | .2 |

4. Grade equivalents generally have a wider range at higher grade levels. This leads to the situation that a student who has the same PR in Grades 3 and 5 will probably be further above (or below) the median in GE terms in Grade 5. This means that if he/she has a high PR in both grades the gain in GE terms will be more than two years. If he/she has a low PR, the gain will be less than two GEs. Therefore, if a constant expected GE gain were established for all students it would ~~be too~~ high for some and too low for others. The example below from ITBS norms demonstrates this problem.

| PR | Grade 3 | Grade 5 | Grade Equivalent Change |
|----|---------|---------|-------------------------|
| 90 | 5.1 | 7.5 | 2.4 |
| 50 | 3.6 | 5.6 | 2.0 |
| 10 | 2.6 | 4.1 | 1.5 |

6. Because a grade equivalent score represents the performance of a typical student at a given grade level, approximately half of the students in a nationwide sample would be expected to score below grade level.
7. Grade equivalents should not be compared across subject areas as they have different meanings. For example, mathematics is more grade related than reading; and, therefore, the GEs are generally less spread out for math than reading.
7. Grade equivalents should not be compared across different tests because they may have different meanings due to different norming samples.

INTERQUARTILE RANGE

Definition

Quartiles are scores (points in a distribution) that divide a score distribution into quarters. Twenty-five percent of the scores are at or below the first quartile (Q1), 50 percent are at or below the second quartile (Q2, which is also the median), and 75 percent are at or below the third quartile (Q3). The interquartile range includes the band of scores that lies between Q1 and Q3, or the middle 50 percent of the scores.

Use

By eliminating the effect of the lowest and highest quarters of the distribution, the interquartile range provides a measure of how the typical students in a group performed.

Precaution(s)

Eliminating the extreme scores may be removing important information such as the location of pockets of students needing compensatory or gifted programs. If the median is close to either quartile, it could indicate a large number of students at that end of the distribution who might require such services.

MEAN

Definition

The sum of the scores divided by the number of scores.

Use

The mean is used as a measure of the performance of the "typical" student in a group.

Precaution

1. In a small group, the mean can be overly influenced by a few extreme scores. Thus, if a few scores in a distribution are very low but most are quite high, the mean will be depressed by the low scores more than the median. In groups where there are a few extremely low scores, the mean will, therefore, be lower than the median. Therefore, it is often useful to compare the mean with the median.
2. Use of the mean provides no information about the spread of scores.

MEDIAN

Definition

The score that divides a test score distribution in half. Half of the scores are above the median, half are below. It is the score that has a percentile rank of 50.

Use

The median is used as a measure of the performance of the "typical" student in a group.

Precaution(s)

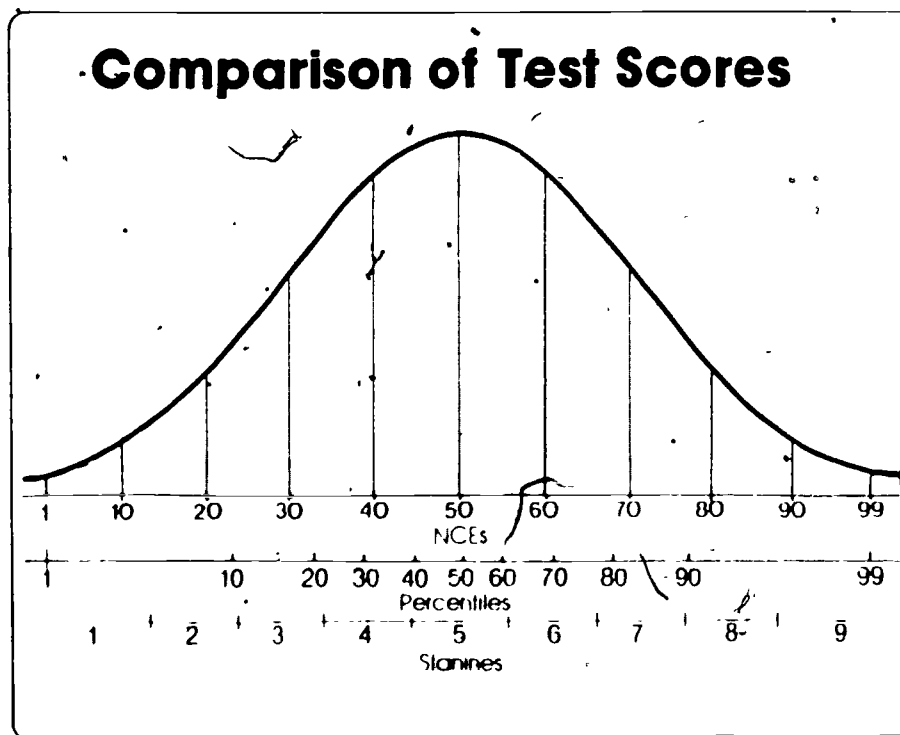
1. See Precaution 1 for mean.
2. Use of the median provides no information about the spread of scores.

NORMAL CURVE

Definition

A normal curve is a distribution of scores or values which, in graphic form, is bell-shaped as shown in Figure 4.2. In a normal curve distribution, the mean and the median are at the same point. The majority of the scores are clustered around the mean/median. Sixty-eight percent of the scores are within one standard deviation of the mean/median, and 95 percent are within two standard deviations. Scores which are more than three standard deviations from the mean/median are rather rare, occurring less than 1 percent of the time.

Figure B2



Uses

Because of its well-documented statistical properties, the normal curve distribution is often used in reporting test scores as an aid in interpreting scores of groups or individuals.

Precautions

The normal curve distribution is a statistical or mathematical ideal. It is not a graphic description of what a particular distribution should be; distributions which do not conform to the normal curve are not "abnormal." Many variables can affect the distribution of a particular set of scores: test content, difficulty of the test items, suitability of the test for the group to which it is administered.

NORMAL CURVE EQUIVALENT SCORES (NCE)

Definition

NCEs divide the normal distribution into 99 segments, units, or scores (Figure 4.2). Scores range from 1-99, with a mean/median of 50. NCEs can be related to percentile ranks as shown in the comparative scales in Figure 4.2.

Uses

1. NCEs can be subjected to arithmetic operations. Therefore, mean NCEs can be computed, and differences in NCEs can be compared at all points in the score distribution.¹
2. NCEs can be used in analyses of group data (for reasons above). In addition, NCEs are scaled to reveal small changes, something which stanine scores will not do consistently because of the large score range at each stanine point.

Precaution(s)

1. Use of NCEs for evaluating individualized performance is to be done with caution. A change of five NCE units on a test score is within the error range for individuals on most standardized tests. However, since NCEs give a false sense of precision--and hence of security--the careless test user could consider such a change meaningful.
2. NCEs are difficult to interpret when presented alone. After an analysis has been performed on the basis of NCEs, results are often converted to some more readily understandable scale like percentile ranks.

¹In a strict statistical sense, it is probably incorrect to subject any test scores to arithmetic operations. However, NCEs, standard scores with an underlying normal distribution, raw scores, and stanines come closer than any other score scales to having equal-interval properties which permit arithmetic operations.

NORM-REFERENCED TEST (NRT)

Definition

A test designed to rank students according to the number of test items answered correctly (i.e., according to raw score). Ranking is usually also done in relation to the performance of a norming sample. The Iowa Tests of Basic Skills is an example of an NRT.

Use

Norm-referenced tests provide information about which students know the most about the content included on the test.

Precaution(s)

1. A good NRT is designed to enable between 40-70 percent of the examinees to answer any given item correctly. Many items are therefore too difficult for a majority of examinees to get right. This means that most NRTs are not very good tests of what an individual student knows (as opposed to criterion-referenced tests). Rather, they are measures of who knows the most about the test content.
2. NRTs often include only one or two questions which measure achievement of a given skill or objective. Information about student performance on a particular objective is, therefore, usually not very reliable.

NORMS

Definition

Statistics that describe the test performance of specified groups, such as students in a given grade, age range, type of community, etc.

Use

Norms provide a way of relating raw scores to a more meaningful score scale, such as percentile ranks, stanines, grade equivalents, or a standard score, so that it can be determined how a student performed relative to a "representative" sample of students similar in some way.

Precaution(s)

1. Norming samples cannot be perfectly representative of a large group of students. For most major standardized tests, publishers use sophisticated sampling procedures to determine the norming sample. However, there will always be a small error factor. This means that caution must be used when comparing the scores from two different tests or even from two levels of the same test because the levels may not have used the same group of students. The following is an example of what might happen because of this. If the students in the norming sample for Test A are brighter than

those in the sample for Test B, the norms for the two tests will not be equivalent. A student, who then takes both tests will be likely to attain a lower percentile rank on Test A because he/she is being compared to a brighter group of students on a test which has "more difficult" norms.

2. Test publishers often provide norms for different times of the year such as fall, winter, and spring. However, they may not have used a norming sample at all of these times, which means that some of the norms are estimates. A test manual should be consulted to determine when a given test was normed. Estimated norms for any other time of year should be viewed with caution.
3. Test norms are not necessarily derived every year, and therefore some norms may be several years old. However, it is common practice to compare current student performance on a given test with the performance of the national norming sample. Caution must therefore be exercised in interpreting the meaning of an individual's status. For example, a student who took a test in 1978 and who achieved a percentile rank of 60 probably did not score higher than 60 percent of the students taking the test in 1978. Rather, the individual scored higher than 60 percent of the students in the norming sample who took the test in the past, for example in 1970.
4. The above considerations may weaken the usefulness of older norms. If changes have occurred in curricula, current students may be better prepared in some skills or subjects than were students in the norming sample, less well prepared, or simply differently prepared. Thus, comparisons of percentile ranks across years may be clouded by changing curricula.
5. Norms are derived so that half of the representative group is expected to be below average. This means that half of the group will be below grade level, below a percentile rank of 50, and below the mean. Therefore, it is extremely difficult to have all of the students in any large group perform above the average.

PERCENTILE RANK (PR)

Definition

The percentage of students in the norming sample who scored at or below a given score. For example, if a raw score of 30 has a percentile rank of 78, then 78 percent of the students in the norming sample scored at or below 30 items correct.

Use

PRs provide easily interpretable information about how a given student's performance on a test compares to the performance of students in the norming sample.

Precaution(s)

1. PRs should not be added or subtracted because they are not an equal distance apart at all points. For example, Figure 3.2 clearly shows that an increase of 10 points between percentile ranks 45 and 55 is not the same distance as an increase of 10 points between percentile ranks 85 and 95. A person would have to show a larger amount of improvement to achieve the second increase.
2. On a test of fewer than 100 questions, it is not possible for every whole number of the percentile rank scale to have an associated raw score. Therefore, in such circumstances, a one-point increase in raw score can cause an increase of several percentile rank units. What might appear to be substantial increase on the percentile rank scale is really only an increase of one additional question correct. This caveat applies to virtually all tests in standardized batteries.
3. Percentile ranks should not be confused with percentage of correct answers (raw scores). They have completely different meanings.

RAW SCORE

Definition

The number of questions or test items answered correctly.

Use

Raw scores can be used to report the number of questions answered correctly.

Precaution(s)

1. A raw score has no meaning other than the number of items answered correctly. It provides no interpretative information.
2. Raw scores can be quite misleading when reported by themselves because the meaning of raw scores differs from test to test. For example, if one 50-item test is easy and one 50-item test is difficult, a raw score of 30 on the difficult test might represent better performance than a raw score of 45 on the easier test.
3. Subjecting raw scores to arithmetic operations (ie., addition, etc.) is a questionable procedure. Generally raw scores do not have the equal interval property required for these operations. This is because the same raw score can be obtained by different students who get different combinations of items correct. These items will most likely vary in their level of difficulty. Thus, identical raw scores will possibly represent differential levels of achievement.

RELIABILITY

Definition

Reliability refers to the extent to which a test is consistent in what it measures. There are three major types of reliability, all expressed as a coefficient ranging from 0 (complete lack of consistency) to 1 (perfect consistency).

1. Internal consistency is the degree to which all the questions on a test measure the same thing. For example, a mathematics test that measures only addition of fractions will probably have a higher internal consistency coefficient than one that measures several different mathematical operations. This would be especially important for achievement tests that measure specific skills.
2. Stability is the degree to which a person will achieve the same score on a test that is taken twice within a time period of anything from a few days to a year or two. This is important in an instrument which measures a trait like natural ability which is not expected to change over time.
3. Equivalence is the degree to which a person will achieve the same score on two forms of the same test. This is important for any test in which two forms are to be used interchangeably.

Use

Reliability is a measure of the quality of a test.

Precaution(s)

The type of reliability appropriate for a given testing situation should be used.

SIGN TEST

Definition

A test of statistical significance which is based on the number of increases (+) and decreases (-) in a set of comparisons. If the pattern of pluses and minuses deviates substantially from an even split, the pattern is considered significant.

Use

To determine if a pattern of increases and decreases deviates from an even split enough to indicate a significant trend.

Precaution

1. The sign test indicates only if the overall trend of increases and decreases is significant. It does not provide any information as to whether individual increases or decreases are significant.

2. The size of a difference is irrelevant. For example, this test does not differentiate between an increase of 1 point or 30 points. They both simply count as a plus.

STANDARD DEVIATION (SD)

Definition

A measure of the dispersion in a set of scores. The closer the scores cluster around the mean, the smaller the SD will be.

Use

As a measure of the spread in a set of scores, the SD can be used to assist in determining the degree of importance of score differences. For example, a difference of 2 points would probably not have much meaning if the SD were 20 but could be quite important if the SD were 0.5.

Precaution(s)

None

STANDARD ERROR OF MEASUREMENT (SEM)

Definition

The SEM is an estimate of the magnitude of error in a test score. Possible causes of error in scores include lucky or unlucky guesses, a student's not feeling well or failing to follow directions, the fact that test questions may be only a sample of those that could be asked, sloppiness, laziness, etc.

Use

1. The SEM provides a way of determining the possible fluctuation in test scores which would be obtained if an individual were to take the same test a number of times. It indicates how far a particular obtained score might deviate from the individual's "true" score (the score the individual would obtain if there were no error in the test). It is usually assumed that the scores obtained from repeated testing would conform to the normal curve distribution. Therefore, in practice, it is assumed that there is a probability of 68:100 that the "true" score is within one SEM of the obtained score and that there is a probability of 95:100 that the obtained score is within two SEMs of the obtained score.
2. The SEM can be used in significance testing to provide a way of determining whether differences in test scores or group mean scores are statistically significant (that they vary more than can be reasonably attributed to testing error).

Precaution(s)

None

STANINE

Definition

A stanine is one of the scores of a nine-point division of the normal distribution. Stanine scores range from 1 to 9 with a mean and median of 5. As shown in Figure 3.2, each stanine has a range of corresponding percentile ranks or raw scores.

Use

1. Stanines can be subjected to arithmetic operations (addition, etc.). Therefore, the mean of distributions can be computed, and differences in stanine scores can be compared at all points in the distribution except in some cases, at the extreme stanine scores of 1 and 9.
2. Stanines do not give a false sense of accuracy of a given score because each stanine covers a range of raw scores. The stanine scale is therefore useful for reporting individuals' scores. Differences in stanines are more likely to represent change beyond that which can be attributed to error than are other kinds of scores.

Precaution(s)

As can be seen in Figure 3.2, interpretation of differences in stanine scores is clouded by the range within a given stanine. For example, if an individual's score increases from the top of the Stanine-3 range to the bottom of the Stanine-5 range, it represents less improvement than an increase from the bottom of the Stanine-3 range to the top of the Stanine-4 range. However, on cursory examination it would seem as if the first increase were the greater.

STATISTICAL SIGNIFICANCE TEST

Definition

A significance test is a statistical procedure used to determine if two (or more) groups differ on a trait more than could normally be expected if testing error or sampling error were assumed to be the cause of the difference.

Use

Under highly controlled conditions (as in experiments, etc.), tests of statistical significance are used to test hypotheses. When variables cannot be controlled (as in the countywide testing program), the results from such a test are open to question.

Precaution(s)

1. Results of significance tests are reported as probability statements. If the reported probability is less than .01, the chance is less than 1:100 that the difference between groups can be attributed to testing error. If the probability is .001, the chance is less than 1:1000 that the difference can be attributed to testing error. However, there is always some chance (1:1000, etc.) that the difference was caused by error.
2. When a large number of tests of significance are performed, some differences will turn out to be statistically significant by chance alone. That is, since there is always some chance that a difference can be caused by error (1:20, 1:100, 1:1000, etc.), a certain number of significant differences can be expected to occur because of error. There is no way to determine if a particular statistically significant difference was or was not caused by error. Again, only a probability can be determined.
3. When tests of significance are used to evaluate the difference of means, the larger the group the smaller the difference in means needs to be for statistical significance. The smaller the group the larger the difference must be. For example, a difference of only 1-2 months on the grade equivalent scale, or a fraction of a raw-score point, ~~could~~ be statistically significant for groups of several thousand students. In contrast, a difference of as much as six months may be required for significance with a group of one hundred students. Because many of the comparisons in this report involve very large groups, no significant tests of differences and means were performed. While small differences would have been statistically significant, they would not have been educationally meaningful.

VALIDITY

Definition

The extent to which a test does the job for which it is used. There are three major types of validity that a test may possess.

1. Content validity is most important for achievement tests. This requires a test to contain questions that adequately reflect the content the test is supposed to measure.
2. Criterion-related validity is most important for placement tests, college admissions tests, or tests on which employment decisions are based. Performance on the test must be highly correlated with performance in the program, success in college, or success on the job for which the test is a screening instrument.
3. Construct validity is most important in psychological instruments. Tests of ability are examples of such instruments. Construct validity requires that the test adequately discriminate between people who do or do not have a particular trait.

Use

Validity is a measure or concept that helps one evaluate the quality of a test. . . .

Precaution(s)

The type of validity appropriate for a given testing situation should be used.